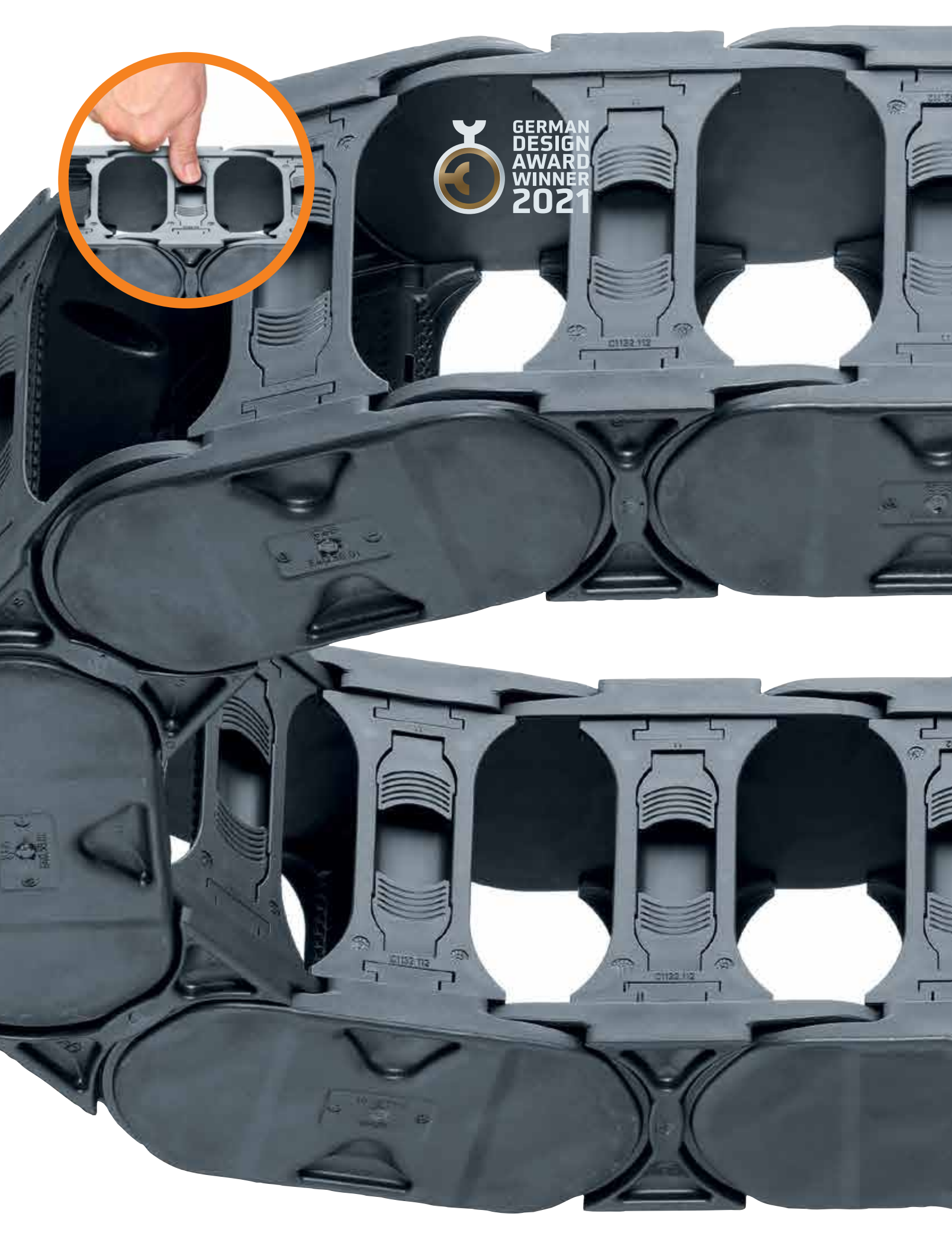




GERMAN
DESIGN
AWARD
WINNER
2021



E4Q

The next generation of easy-to-assemble e-chains®



Advantages of the E4Q system:

- 40% faster filling compared to E4.1 system - crossbar designed for tool-free opening and closing
- 10% less weight compared to E4.1 system - material recesses for optimized weight and strength
- Stronger compared to the E4.1 system - vertically and horizontally positioned stop-dogs for the best stability depending on the type of installation
- 17dB(A) quieter than 4040C series - optional noise reduction accessories available



When to use another e-chain® series:

- If a fully enclosed e-tube with similar strength and size is required
▶ **E4.1, page 626**
- When an e-chain® must fulfill ISO Class 1 cleanroom standard
▶ **E6.1, page 848**
- When a light, cost-effective e-chain®/e-tube with higher dynamics is needed
▶ **E4.1L, page 546**



The next generation of easy-to-assemble e-chains® - E4Q

Easy opening and closing, without tools

The latest E4Q e-chains® generation combines proven design features of the 12-year old, robust E4.1 e-chains® standard with new bionic design elements and a novel opening mechanism. This gives the E4Q an even longer service life and significantly improved ease of installation.

- Tool-free opening and closing
- Sustainability - 10% less material means 10% less energy consumption during production
- Short cross-bar pickup for even easier filling of the e-chain®
- Optimized interior geometry for longer cable service life
- Integrated grid structure on crossbars for fixed interior separation with narrower separators
- Inner/outer link principle for straight run
- Undercut design ensures the best hold as well as high lateral and torsion strength

Typical industries and applications

- Machine tools
- Cranes
- Automation systems



Attachment from any side with KMA mounting brackets

40% faster filling¹⁾: crossbar designed for tool-free opening and closing

15% higher pull-out strength of the crossbars¹⁾: strong connection to the e-chain®

10% less weight¹⁾: material recesses for optimized weight and strength

Stronger¹⁾: optimum force distribution (four stop-dogs)

17dB(A) quieter²⁾: optional noise reduction accessories available

1) Compared to E4.1 system

2) Compared to 4040C series

E4Q | Selection table

Series	Inner height hi		Inner width Bi		Outer width Ba		Outer height ha		Bending radius R		Unsupported length
	in.	(mm)	in.	(mm)	in.	(mm)	in.	(mm)	in.	(mm)	≤ ft. (m)



e-chains® with crossbars every link
the all-rounder - also for particularly demanding applications

Please observe the guidelines for the e-chains® selection, further information ► From page 116

E4Q.34 ¹⁾	1.34	(34)	2.95-11.81	(075-300)	3.86-12.72	(98-323)	2.13	(54)	2.48-11.81	(063-300)	11.81 (3.60)
E4Q.44 ¹⁾	1.73	(44)	2.95-11.81	(075-300)	3.98-12.83	(101-326)	2.52	(64)	2.95-13.78	(075-350)	13.12 (4.00)
E4Q.58	2.28	(58)	3.94-16.73	(100-425)	5.28-18.07	(134-459)	3.31	(84)	5.31-19.69	(135-500)	16.41 (5.00)
E4Q.82	3.23	(82)	3.94-16.73	(100-425)	5.91-18.70	(150-475)	4.25	(108)	5.91-39.37	(150-1000)	20.34 (6.20)



e-chains® with crossbars every 2nd link
the cost-effective, easy-to-install alternative for almost all applications

Please observe the guidelines for the e-chains® selection, further information ► From page 116

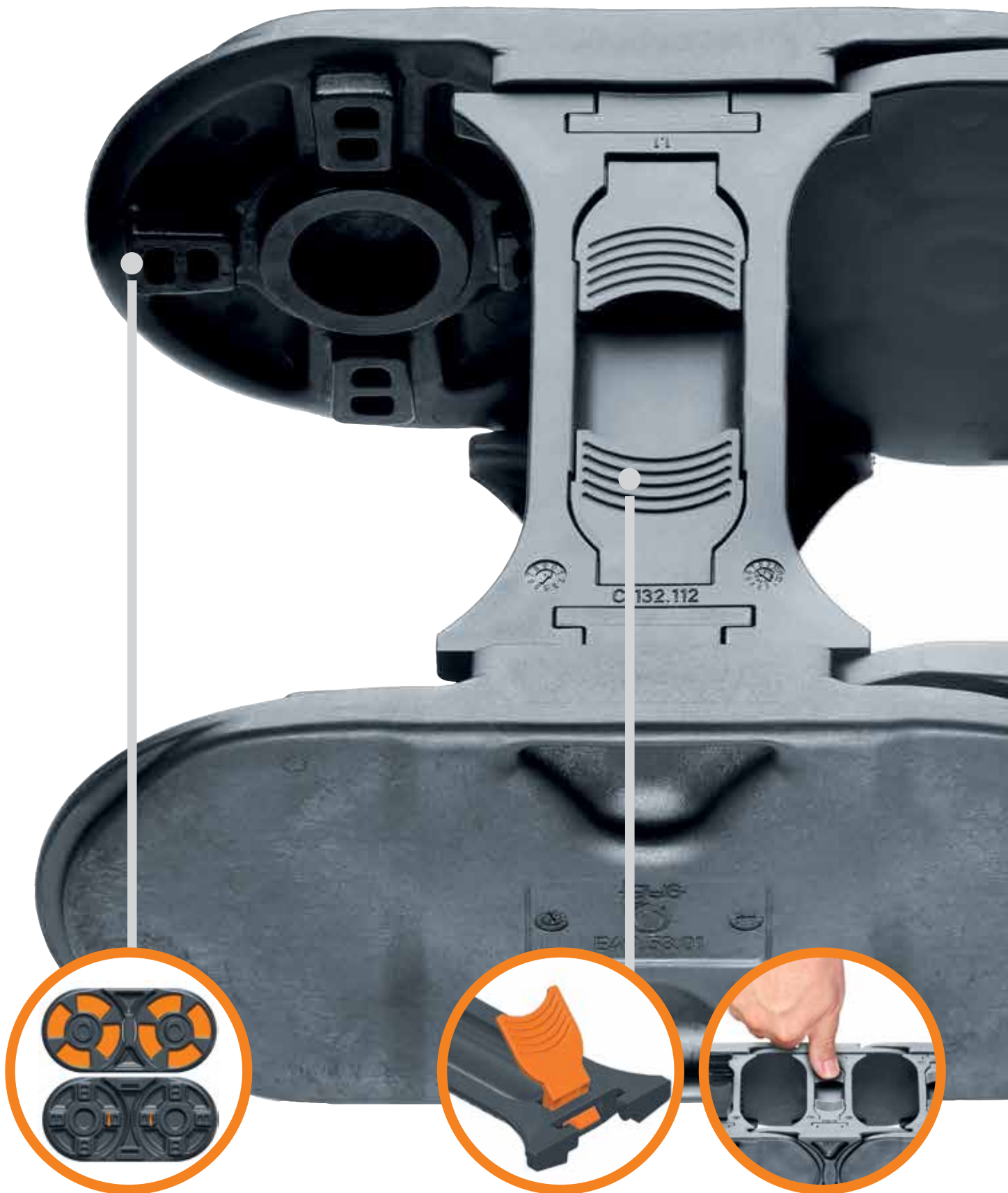
H4Q.34 ¹⁾	1.34	(34)	2.95-11.81	(075-300)	3.86-12.72	(98-323)	2.13	(54)	2.48 - 11.81	(063 - 300)	11.81 (3.60)
H4Q.44 ¹⁾	1.73	(44)	2.95-11.81	(075-300)	3.98-12.83	(101-326)	2.52	(64)	2.95 - 13.78	(075 - 350)	13.12 (4.00)
H4Q.58	2.28	(58)	3.94-16.73	(100-425)	5.28-18.07	(134-459)	3.31	(84)	5.31 - 19.69	(135 - 500)	16.41 (5.00)
H4Q.82	3.23	(82)	3.94-16.73	(100-425)	5.91-18.70	(150-475)	4.25	(108)	5.91 - 39.37	(150 - 1000)	20.34 (6.20)



Available from stock. Orders ship as early as today.*

*On average 90% of orders ship the same day..

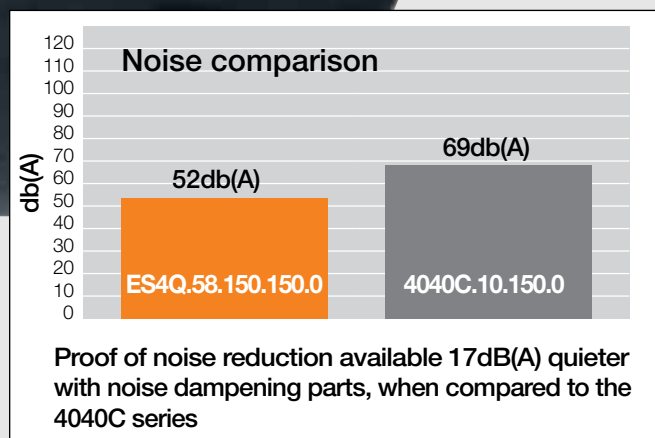
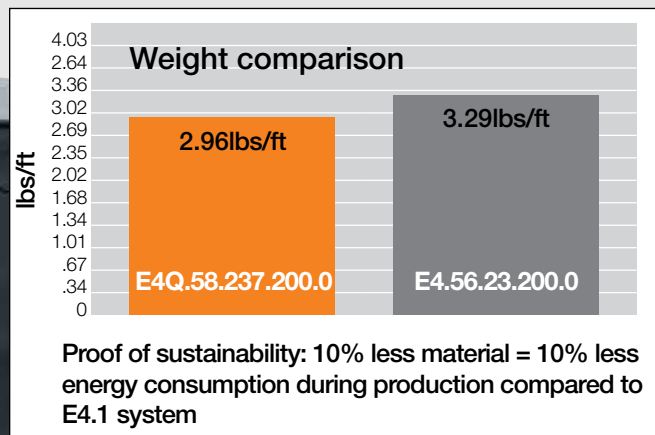




Optional noise dampening -
new system for noise reduction.
17dB(A) quieter than 4040C series

Open and close the E4Q e-chain® easily
without tools. 40% faster assembly or
filling compared to E4.1 system

The E4Q innovation | Design principle | Proof



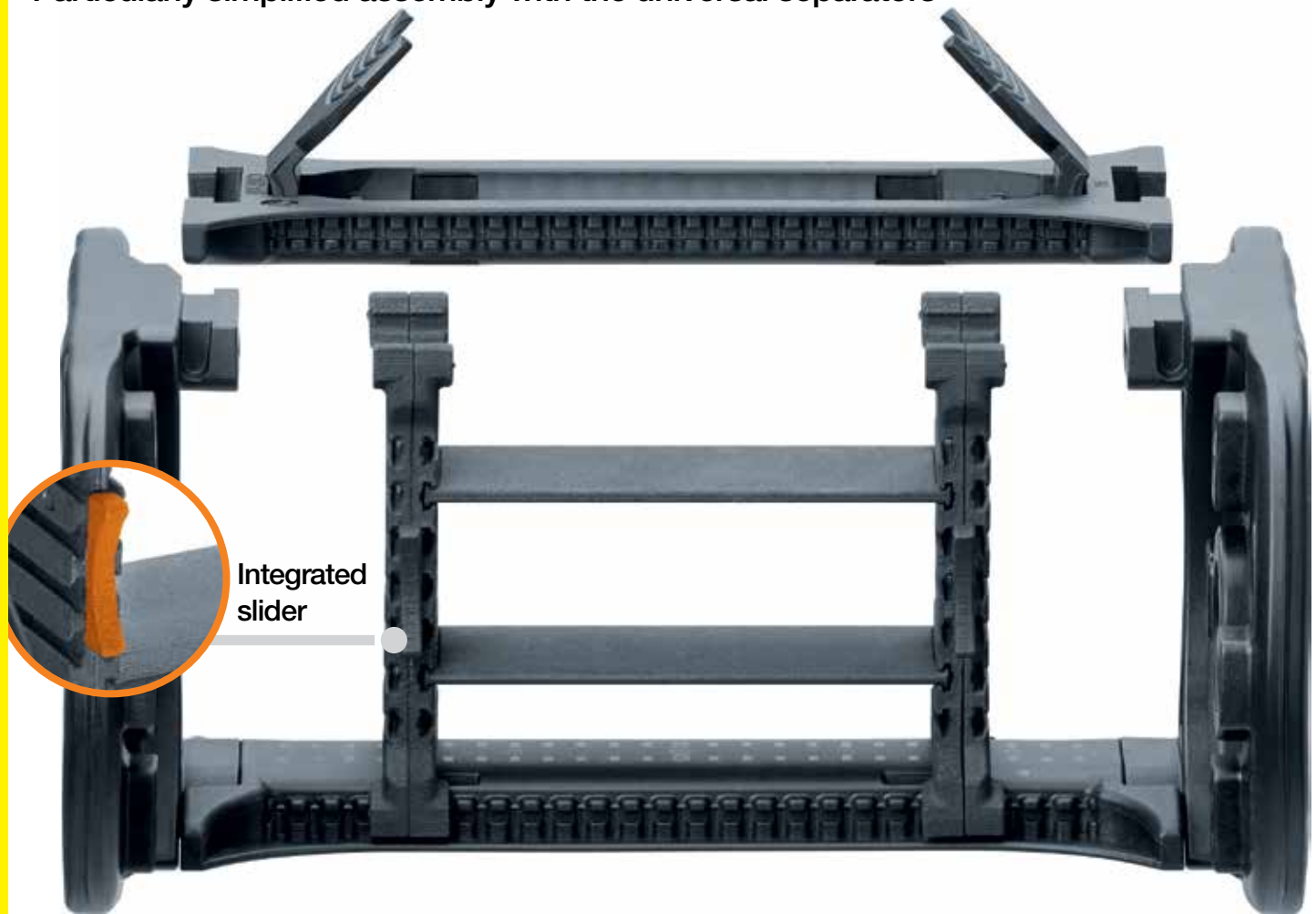
Lighter e-chain® link structure thanks to material savings in design.
10% lighter than the E4.1 system.



More strength and a higher unsupported length compared to the E4.1 system due to vertical and horizontal stop-dogs

E4Q | Universal interior separation

Particularly simplified assembly with the universal separators



Complete flexibility, reliability and ease of assembly in one

The new universal system for modular shelving offers complete flexibility:

Depending on accessibility, choose the side from which you want to fit the shelf and whether it is easier to access the inner or outer radius of the e-chain® in order to release the crossbars. The shelves are locked in place by means of the integrated slider and additionally when the crossbar is fitted. Thanks to positive-locking, assembly is possible with virtually no force. Locking is simple and fast but the shelves are strongly captive. To unlock, release the crossbar on the inner or outer radius, depending on accessibility. The new E4Q e-chains® can be opened quickly and without tools. After the crossbar has been released, the shelf can be unlocked by means of the slider and then simply pulled out.



E4Q | Interior separation options | Overview

Universal interior separation | For even more horizontal separation options

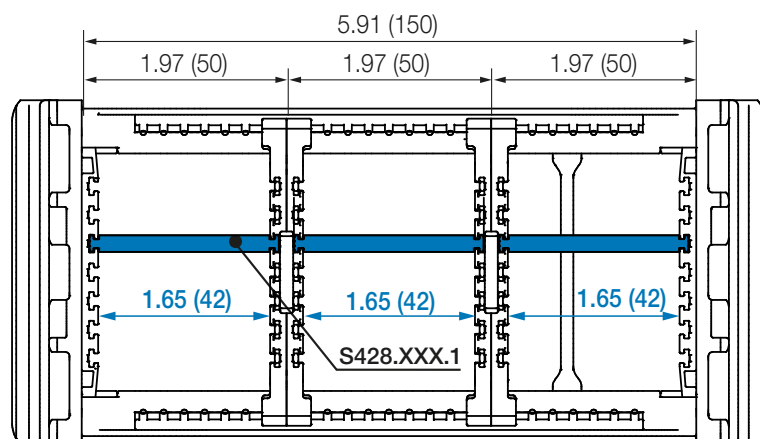
Universal interior separation

The interior separation elements shown here are exemplary and the number of slots depends on the inner height of the series!



Series	Universal middle plate ¹⁾	Universal side plate ¹⁾	Universal separator ¹⁾	Shelves ¹⁾ lockable (XXX = mm)
E4Q.34 / H4Q.34	34.21	34.22	34.23	S428.XXX
E4Q.44 / H4Q.44	44.21	44.22	44.23	S428.XXX
E4Q.58 / H4Q.58	58.21	58.22	58.23	S428.XXX
E4Q.82 / H4Q.82	82.21	82.22	82.23	S428.XXX

1) Available from spring 2021.



Note: The available width of the lockable shelf **Part No. S428.XXX** deviates by 8mm from the width stated in the part number. With the shelf S428.050, e.g. the space between the separators is 1.65" (42mm).

Standard interior separation

The interior separation elements shown here are exemplary and the number of slots depends on the inner height of the series!



Series	Standard separator	Notch separator	Lean notch separator*	Shelves, lockable (X = mm)
E4Q.34 / H4Q.34	34.1 ¹⁾	34.5 ²⁾	34.15 ²⁾	3200.X
E4Q.44 / H4Q.44	44.1 ¹⁾	44.5 ²⁾	44.15 ²⁾	3200.X
E4Q.58 / H4Q.58	58.1	58.5 ²⁾	58.15	520.X
E4Q.82 / H4Q.82	82.1	82.5	82.15	520.X

1) Available from spring 2021. 2) Available upon request. Please consult igus® for delivery time.

***Note:** Please combine a maximum of four lean notch separators with one shelf. Not suitable for side-mounted e-chains®!



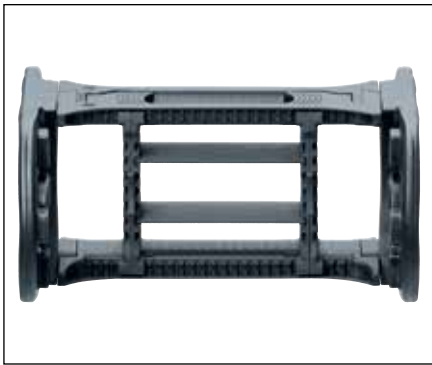
Optional noise dampeners for even quieter operation



KMA mounting brackets with attachment options from any side



Notches in the crossbar for secure grip of the separators



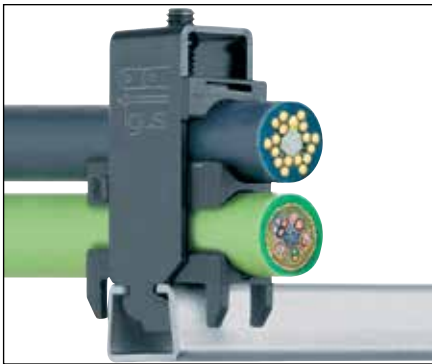
Particularly simplified assembly with the universal separators



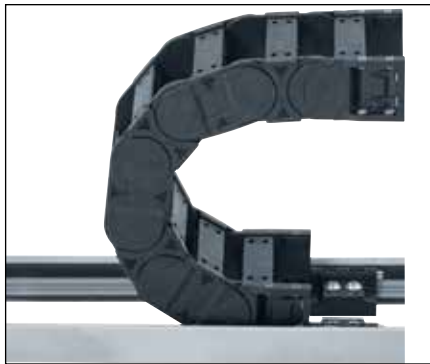
Standard interior separation from the proven E4 modular system available from stock



Lean separators enable extremely fast cable filling in several layers



Strain relief elements include clamps, tie-wrap plates, nuggets, etc. ► **From page 1418**



Aluminum and steel support trays for support of the lower run ► **From page 1394**



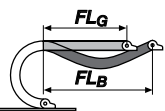
Super-aluminum trough with low wear glide bar for some series, available from stock ► **From page 1336**

Technical data



Speed gliding¹⁾ / acceleration gliding¹⁾

≤ 32.8 ft/s (10 m/s) / ≤ 164ft/s² (50 m/s²)



Speed FL_G / acceleration FL_G

≤ 64.6 ft/s (20 m/s) / ≤ 656 ft/s² (200 m/s²)

Speed FL_B / acceleration FL_B

≤ 9.84 ft. (3 m/s) / ≤ 19.69 ft/s² (6 m/s²)



Material - permitted temperature °F, igumid G

-40°F (-40°C) / +248°F (+120°C)



Flammability class, igumid G

VDE 0304 IIC UL94-HB

■ FL_G = unsupported with straight upper run ■ FL_B = unsupported with permitted sag

Installation types, maximum travels

Series	 Unsupported	 Gliding ¹⁾	 Vertical hanging	 Vertical standing	 Side mounted unsupported
E4Q.34 / H4Q.34	≤ 23.62 ft. (7.2m)	≤ 656 ft. (200m)	≤ 262 ft. (80m)	≤ 16.41 ft. (5.0m)	≤ 4.92 ft. (1.5m)
E4Q.44 / H4Q.44	≤ 26.25 ft. (8.0m)	≤ 984 ft. (300m)	≤ 328 ft. (100m)	≤ 19.69 ft. (6.0m)	≤ 6.56 ft. (2.0m)
E4Q.58 / H4Q.58	≤ 32.81 ft. (10.0m)	≤ 1312 ft. (400m)	≤ 328 ft. (100m)	≤ 19.69 ft. (6.0m)	≤ 8.20 ft. (2.5m)
E4Q.82 / H4Q.82	≤ 40.68 ft. (12.4m)	≤ 1312 ft. (400m)	≤ 394 ft. (120m)	≤ 19.69 ft. (6.0m)	≤ 9.84 ft. (3.0m)

E4Q e-chain® sample request

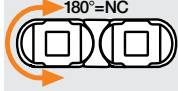
Are you interested in our E4Q e-chain®? Order your free sample and see the innovative properties for yourself.

Request a sample here ► www.igus.com/innovation



E4Q | Options and order keys

Options with order keys | Examples based on series E4Q.58/H4Q.58

	Standard	Optional noise dampers	Simply turn outer side link, no additional rework	Reverse Bend Radius (RBR) for circular movements
	Part No. Standard	Part No. NC version	Part No. NC version	Part No. RBR
				
	E4Q.58.150.R.0 e-chains® with crossbars every link	ES4Q.58.150.R.0 e-chains® with crossbars every link	E4Q.58.150.R.0.NC e-chains® with crossbars every link	— RBR is not possible
	H4Q.58.150.R.0 e-chain® with crossbars every 2 nd link	HS4Q.58.150.R.0 e-chain® with crossbars every 2 nd link	H4Q.58.150.R.0.NC e-chain® with crossbars every 2 nd link	— RBR is not possible
	Ready to ship in 24 - 48hrs.*	Delivery time upon request	Ready to ship in 24 - 48hrs.*	

*On average 90% of orders ship the same day.

Order example | Examples based on series E4Q.58

 **Order example for complete e-chain® 9.84 ft. (3m), color black, with mounting brackets and interior separation:**

e-chain® 9.84 ft. (3m)	Please indicate e-chain® length or number of links: 9.84ft. (3m) or 33 links	E4Q.58.150.R.0
+ Mounting brackets	1 set (with odd number of links and integrated C-profiles)	E4Q.582.150.1.12.C
Interior separation	with 2 separators assembled every 2 nd link	2 x 58.1.1
Order text:	9.84 ft (3m) E4Q.58.150.300.0 + E4Q.582.150.1.12.C + 2 x 58.1.1	

E4Q| Options and order keys

Unsupported
lengths
+25% possible

ESD - electrically
conductive
material

Part No.
XXL material



E4Q.58.150.R.0.XXL

e-tube, closed¹⁾

Part No.
igumid ESD³⁾



E4Q.58.150.R.0.ESD

e-chains[®] with crossbars every link

H4Q.58.150.R.0.XXL

e-chain[®] with crossbars every 2nd link

H4Q.58.150.R.0.ESD

e-chain[®] with crossbars every 2nd link

**Ready to ship
in 12 business days***

**Delivery time
upon request**

*On average 90% of orders ship the same day.

Order key and color examples | Examples based on series E4Q.58/H4Q.58



Order key

e-chain[®] with crossbars every link
e-chain[®] with crossbars every 2nd link

E4Q.58.150.300.0
H4Q.58.150.300.0

Series / Type
Inner height
Width index (depends on *Bi*)
Bend radius *R*
Color index (standard black)



Order index for color options

Color	Order index	Color	Order index		
 Black	Standard	.0	 Orange	Special color	.2
 Silver-grey	Special color	.31	 Yellow	Special color	.4
 White	Special color	.1	 Light grey	Special color	.14
 Grey-white	Special color	.1S			

Black e-chains[®] ready to ship in 24 - 48hrs.*

Above special colors upon request.

Light design, high dynamics, cost-effective



Series E4Q.34 | Crossbars every link (crossbars removable along the inner and outer radius)

Series H4Q.34 | Crossbars every 2nd link (crossbars removable along the inner and outer radius)

Part No.		<i>Bi</i>	<i>Ba</i>	E4Q.34	H4Q.34
e-chains®		in. (mm)	in. (mm)	lbs/ft (kg/m)	lbs/ft (kg/m)
E4Q.34 H4Q.34 075.	R.0	2.95 (75)	3.86 (98)	≈ 1.08 (1.61)	≈ 0.96 (1.43)
E4Q.34 H4Q.34 087.	R.0	3.43 (87)	4.37 (111)	≈ 1.11 (1.65)	≈ 0.97 (1.45)
E4Q.34 H4Q.34 100.	R.0	3.94 (100)	4.84 (123)	≈ 1.14 (1.70)	≈ 0.99 (1.47)
E4Q.34 H4Q.34 108.	R.0	4.25 (108)	5.16 (131)	≈ 1.16 (1.73)	≈ 1.00 (1.49)
E4Q.34 H4Q.34 112.	R.0	4.41 (112)	5.35 (136)	≈ 1.17 (1.74)	≈ 1.00 (1.49)
E4Q.34 H4Q.34 125.	R.0	4.92 (125)	5.83 (148)	≈ 1.20 (1.79)	≈ 1.02 (1.52)
E4Q.34 H4Q.34 137.	R.0	5.39 (137)	6.34 (161)	≈ 1.23 (1.83)	≈ 1.03 (1.54)
E4Q.34 H4Q.34 150.	R.0	5.91 (150)	6.81 (173)	≈ 1.32 (1.96)	≈ 1.08 (1.60)
E4Q.34 H4Q.34 162.	R.0	6.38 (162)	7.32 (186)	≈ 1.34 (2.00)	≈ 1.09 (1.63)
E4Q.34 H4Q.34 168.	R.0	6.61 (168)	7.52 (191)	≈ 1.36 (2.03)	≈ 1.10 (1.64)
E4Q.34 H4Q.34 175.	R.0	6.89 (175)	7.79 (198)	≈ 1.38 (2.06)	≈ 1.11 (1.65)
E4Q.34 H4Q.34 187.	R.0	7.36 (187)	8.31 (211)	≈ 1.41 (2.10)	≈ 1.12 (1.67)
E4Q.34 H4Q.34 200.	R.0	7.87 (200)	8.78 (223)	≈ 1.44 (2.15)	≈ 1.14 (1.70)
E4Q.34 H4Q.34 212.	R.0	8.34 (212)	9.29 (236)	≈ 1.47 (2.19)	≈ 1.16 (1.72)
E4Q.34 H4Q.34 225.	R.0	8.86 (225)	9.76 (248)	≈ 1.50 (2.24)	≈ 1.17 (1.74)

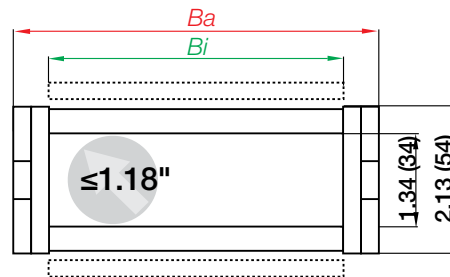
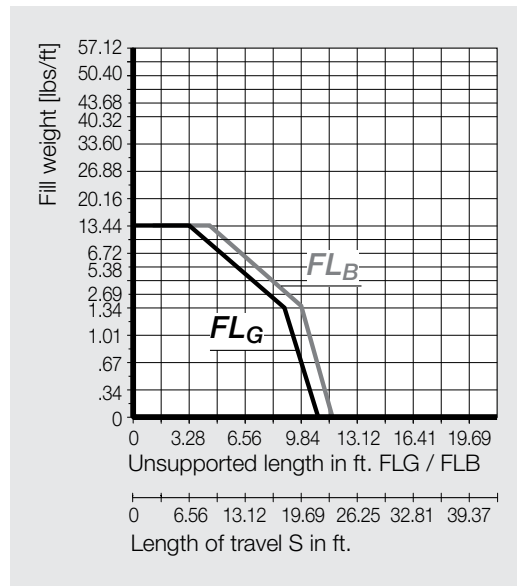
Part No.		<i>Bi</i>	<i>Ba</i>	E4Q.34	H4Q.34
e-chains®		in. (mm)	in. (mm)	lbs/ft (kg/m)	lbs/ft (kg/m)
E4Q.34 H4Q.34 237.	R.0	9.33 (237)	10.28 (261)	≈ 1.53 (2.28)	≈ 1.18 (1.76)
E4Q.34 H4Q.34 250.	R.0	9.84 (250)	10.75 (273)	≈ 1.56 (2.32)	≈ 1.19 (1.78)
E4Q.34 H4Q.34 262.	R.0	10.31 (262)	11.26 (286)	≈ 1.59 (2.36)	≈ 1.22 (1.81)
E4Q.34 H4Q.34 275.	R.0	10.83 (275)	11.73 (298)	≈ 1.62 (2.41)	≈ 1.23 (1.83)
E4Q.34 H4Q.34 287.	R.0	11.30 (287)	12.24 (311)	≈ 1.65 (2.46)	≈ 1.24 (1.85)
E4Q.34 H4Q.34 300.	R.0	11.81 (300)	12.72 (323)	≈ 1.69 (2.51)	≈ 1.26 (1.88)
E4Q.34 H4Q.34 312.	R.0*	12.28 (312)	13.23 (336)	≈ 1.71 (2.55)	≈ 1.28 (1.90)
E4Q.34 H4Q.34 325.	R.0*	12.80 (325)	13.70 (348)	≈ 1.75 (2.60)	≈ 1.29 (1.92)
E4Q.34 H4Q.34 337.	R.0*	13.27 (337)	14.21 (361)	≈ 1.77 (2.64)	≈ 1.30 (1.94)
E4Q.34 H4Q.34 350.	R.0	13.78 (350)	14.69 (373)	≈ 1.81 (2.69)	≈ 1.32 (1.97)
E4Q.34 H4Q.34 362.	R.0*	14.25 (362)	15.20 (386)	≈ 1.83 (2.73)	≈ 1.34 (1.99)
E4Q.34 H4Q.34 375.	R.0*	14.76 (375)	15.67 (398)	≈ 1.87 (2.78)	≈ 1.35 (2.01)
E4Q.34 H4Q.34 387.	R.0	15.24 (387)	16.18 (411)	≈ 1.89 (2.82)	≈ 1.36 (2.03)
E4Q.34 H4Q.34 400.	R.0*	15.75 (400)	16.65 (423)	≈ 1.95 (2.90)	≈ 1.40 (2.08)

*Width available upon request. Delivery time upon request.

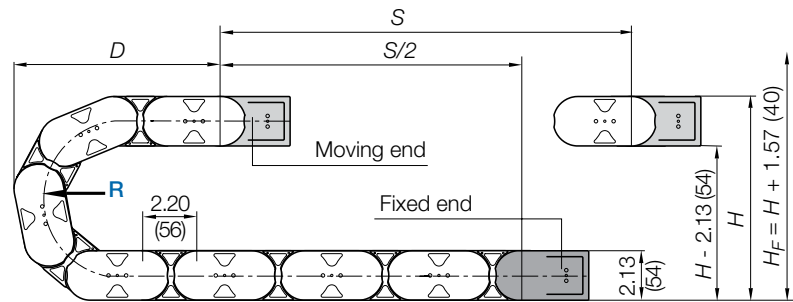
Complete Part No. with required radius (*R*). Example: E4Q.34.150.150.0 = crossbars every link / H4Q.34.100.150.0 = crossbars every 2nd link

Available bend radii

R in. (mm) | 2.48 (063)¹⁾ | 2.95 (075)¹⁾ | 3.94 (100)¹⁾ | 4.92 (125) | 5.91 (150) | 6.89 (175) | 7.87 (200) | 8.66 (220) | 9.84 (250) | 11.81 (300) |



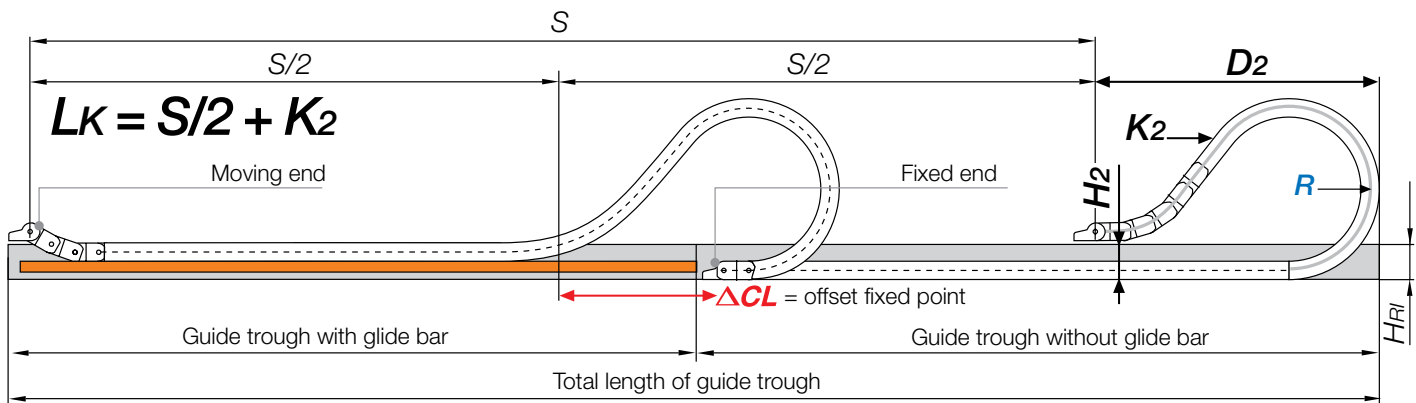
Inner height in. (mm)	1.34 (34)
Pitch per link in. (mm)	2.20 (56)
Links/ft (m)	5.45 (18)
corresponds to (mm)	1,008
e-chain® length	$L_K = \frac{S}{2} + K$



R	2.48 (063)	2.95 (075)	3.94 (100)	4.92 (125)	5.91 (150)	6.89 (175)	7.87 (200)	8.66 (220)	9.84 (250)	11.81 (300)
H	7.09 (180)	8.03 (204)	10.00 (254)	11.97 (304)	13.94 (354)	15.91 (404)	17.87 (454)	19.45 (494)	21.81 (554)	25.75 (654)
D	6.85 (174)	7.32 (186)	8.31 (211)	9.29 (236)	10.28 (261)	11.26 (286)	12.24 (311)	12.24 (311)	14.21 (361)	16.18 (411)
K	12.20 (310)	13.78 (350)	16.93 (430)	19.88 (505)	23.03 (585)	26.18 (665)	29.33 (745)	31.69 (805)	35.43 (900)	41.54 (1055)

The required clearance height: $H_F = H + 1.57$ in. (40 mm) with 1.34 lbs/ft (2.0 kg/m) fill weight.

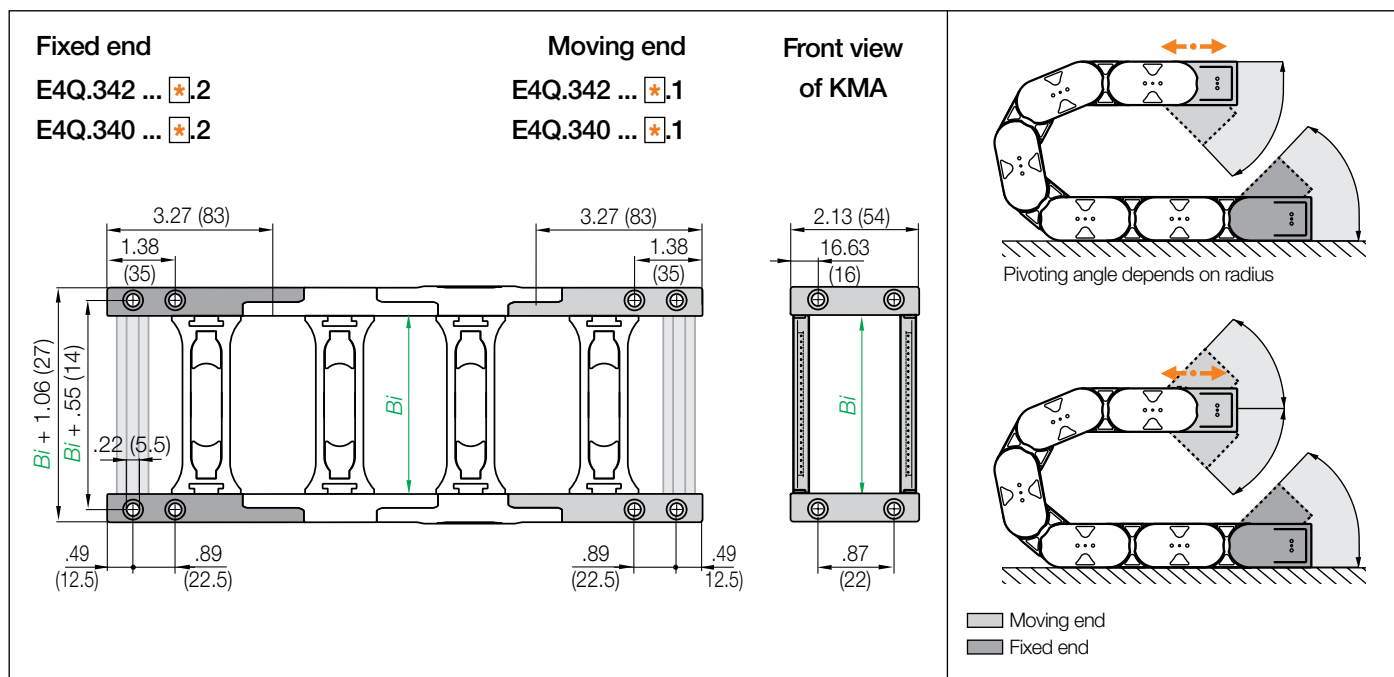
Gliding applications | For travel lengths from 32.8 ft. (10m) to max. 656 ft. (200m)



Note: We recommend the project planning of such a system to be carried out by igus®.

In case of travels between 22.97ft. (7m) and 32.8 ft. (10m) we recommend an e-chain® with a longer unsupported length.

R	2.48 (063)	2.95 (075)	3.94 (100)	4.92 (125)	5.91 (150)	6.89 (175)	7.87 (200)	8.66 (220)	9.84 (250)	11.81 (300)
H _i	4.96 (126)	5.91 (150)	6.54 (166)	6.54 (166)	6.54 (166)	6.54 (166)	6.54 (166)	6.54 (166)	6.54 (166)	6.54 (166)
D ₂	5.75 (146)	6.22 (158)	14.57 (370)	18.50 (470)	19.69 (500)	25.79 (655)	30.31 (770)	35.43 (900)	36.61 (930)	43.31 (1100)
K _i	12.20 (310)	13.78 (350)	24.25 (616)	30.87 (784)	35.28 (896)	44.09 (1120)	50.71 (1288)	57.32 (1456)	61.73 (1568)	74.96 (1904)
ΔCL	-	-	6.30 (160)	8.27 (210)	9.45 (240)	14.57 (370)	18.11 (460)	21.26 (540)	22.44 (570)	27.17 (690)



One end pivoting¹⁾ | Recommended for unsupported, vertical hanging, standing applications
Both ends pivoting | Recommended for gliding applications

Part No. KMA full set				
Width Index	one end pivoting ¹⁾	both ends pivoting	in.	Bi (mm)
075.	E4Q.342.075. 12.C	E4Q.340.075. 12.C	2.95	(75)
087.	E4Q.342.087. 12.C	E4Q.340.087. 12.C	3.43	(87)
100.	E4Q.342.100. 12.C	E4Q.340.100. 12.C	3.94	(100)
108.	E4Q.342.108. 12.C	E4Q.340.108. 12.C	4.25	(108)
112.	E4Q.342.112. 12.C	E4Q.340.112. 12.C	4.41	(112)
125.	E4Q.342.125. 12.C	E4Q.340.125. 12.C	4.92	(125)
137.	E4Q.342.137. 12.C	E4Q.340.137. 12.C	5.39	(137)
150.	E4Q.342.150. 12.C	E4Q.340.150. 12.C	5.91	(150)
162.	E4Q.342.162. 12.C	E4Q.340.162. 12.C	6.38	(162)
168.	E4Q.342.168. 12.C	E4Q.340.168. 12.C	6.61	(168)
175.	E4Q.342.175. 12.C	E4Q.340.175. 12.C	6.89	(175)
187.	E4Q.342.187. 12.C	E4Q.340.187. 12.C	7.36	(187)
200.	E4Q.342.200. 12.C	E4Q.340.200. 12.C	7.87	(200)
212.	E4Q.342.212. 12.C	E4Q.340.212. 12.C	8.35	(212)
225.	E4Q.342.225. 12.C	E4Q.340.225. 12.C	8.86	(225)

Part No. KMA full set				
Width Index	one end pivoting ¹⁾	both ends pivoting	in.	Bi (mm)
237.	E4Q.342.237. 12.C	E4Q.340.237. 12.C	9.33	(237)
250.	E4Q.342.250. 12.C	E4Q.340.250. 12.C	9.84	(250)
262.	E4Q.342.262. 12.C	E4Q.340.262. 12.C	10.31	(262)
275.	E4Q.342.275. 12.C	E4Q.340.275. 12.C	10.83	(275)
287.	E4Q.342.287. 12.C	E4Q.340.287. 12.C	11.30	(287)
300.	E4Q.342.300. 12.C	E4Q.340.300. 12.C	11.81	(300)
312.	E4Q.342.312. 12.C**	E4Q.340.312. 12.C**	12.28	(312)
325.	E4Q.342.325. 12.C**	E4Q.340.325. 12.C**	12.80	(325)
337.	E4Q.342.337. 12.C**	E4Q.340.337. 12.C**	13.27	(337)
350.	E4Q.342.350. 12.C	E4Q.340.350. 12.C	13.78	(350)
362.	E4Q.342.362. 12.C**	E4Q.340.362. 12.C**	14.25	(362)
375.	E4Q.342.375. 12.C**	E4Q.340.375. 12.C**	14.76	(375)
387.	E4Q.342.387. 12.C	E4Q.340.387. 12.C**	15.24	(387)
400.	E4Q.342.400. 12.C**	E4Q.340.400. 12.C**	15.75	(400)

1) One end pivoting - standard for E4Q mounting brackets. For the C-profile option please add index .C

**Width available upon request. Delivery time upon request. (KMA = polymer metal mounting bracket)

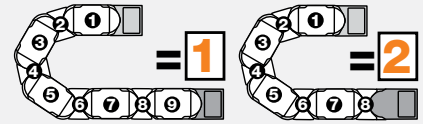
GSC glide pads - longer service life in abrasive environment

- Low-friction and low-wear gliding elements increase the service life of igus® e-chains® in gliding applications
 - Easy to retrofit, opening crossbars remain accessible
- More information ► www.igus.com/glide-pad



KMA mounting brackets | Attachment from any side | Pivoting

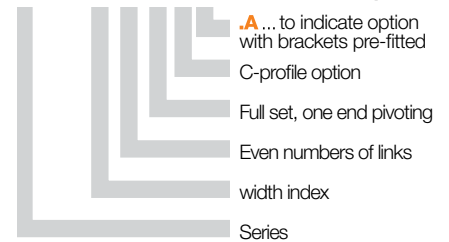
Note *: The e-chains® may end with either an inner or an outer side link. An outer side link should always be the first e-chain® link at the moving end. Please specify the index **1** (for odd) or **2** (for even) depending on an even or odd number of links required.



Possible orientations for KMA mounting brackets. For mounting brackets pre-fitted **without C-profile**, please attach index **.A**. For types pre-fitted **with C-profile** please attach index **.A1**, **.A2**, **.A3** or **.A4**.

E4Q.342.150.2.12.C.A2

Order example



Strain relief e.g. clamps, tiewrap plates, nuggets and clips are available from stock. The complete chainfix range with ordering options ► From page 1418

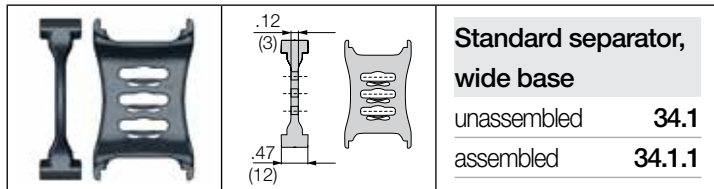
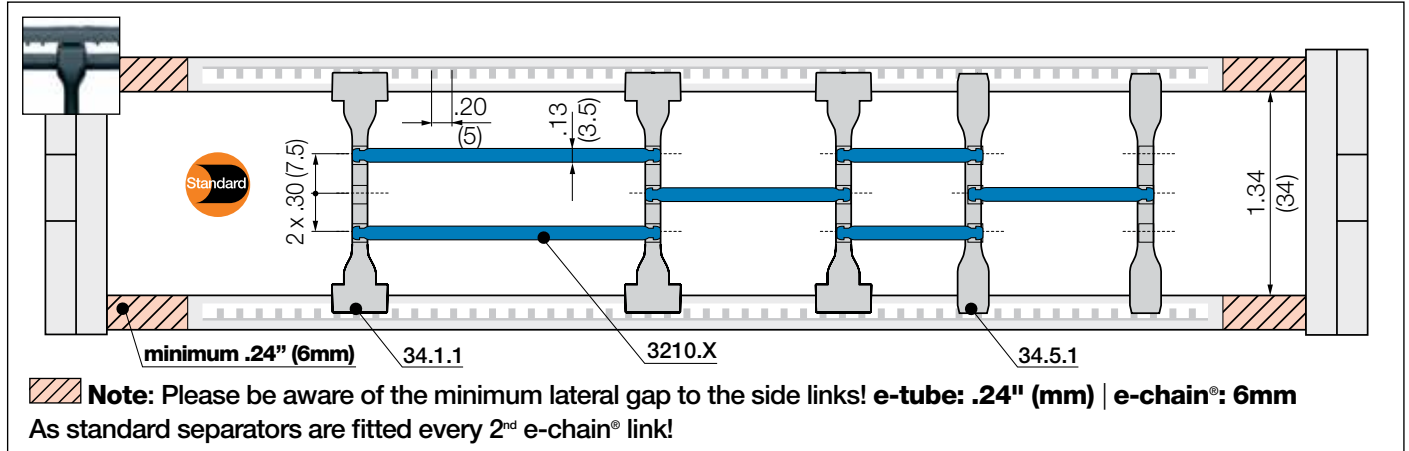
Aluminum support tray

- Corrosion-resistant and seawater-resistant aluminum rails with adjustable width
- Noise-reducing glide strip integrated as standard
- Easy installation and connection of the e-chain®
- Open design - dirt and debris fall through

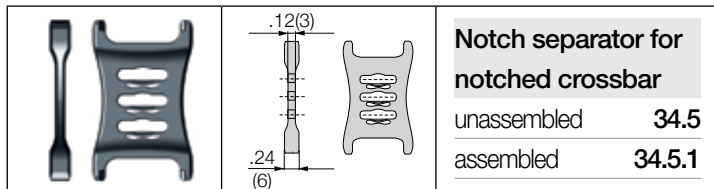
More information ► From page 1400



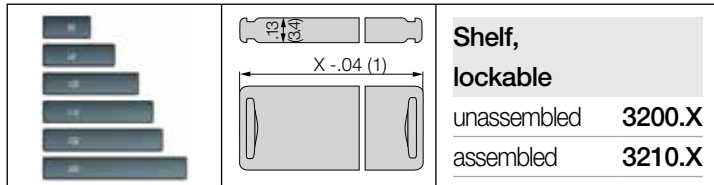
The E4Q series combines innovative design with a new level of strength and robustness

**Standard - for any application**

Separator with a wide base for maximum holding force.

**Locks securely in preset increments**

Notch separator for exact positioning. Recommended for side-mounted applications.

**Horizontal separation**

Full-width shelf locks securely into separators at both ends, giving a fixed width. Can be used as full-width or partial shelf.

Shelves

Width = X in. (mm)

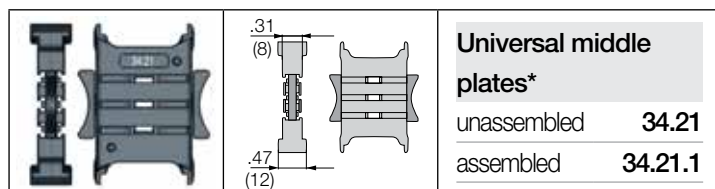
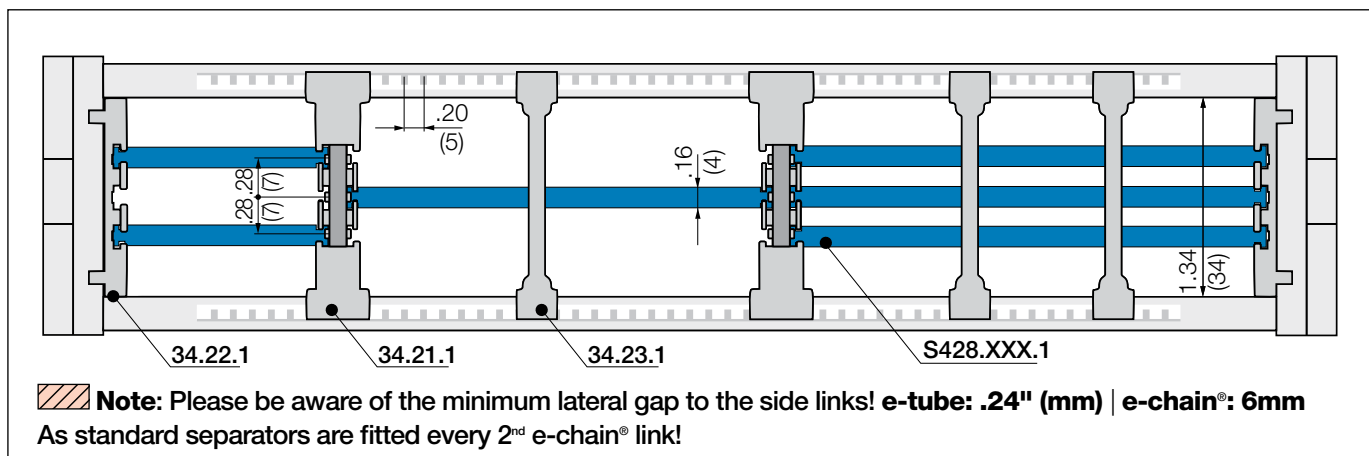


X in. (mm)	unassembled	assembled
1.97 (050)	3200.050	3210.050
2.95 (075)	3200.075	3210.075
3.94 (100)	3200.100	3210.100
4.53 (115)	3200.115	3210.115

X in. (mm)	unassembled	assembled
4.92 (125)	3200.125	3210.125
5.91 (150)	3200.150	3210.150
6.89 (175)	3200.175	3210.175
7.87 (200)	3200.200	3210.200

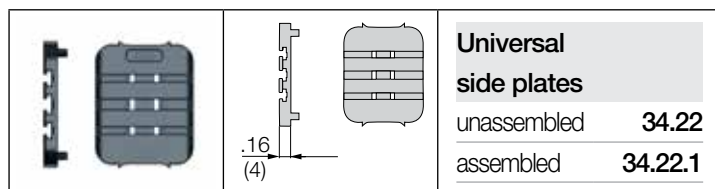
X in. (mm)	unassembled	assembled
8.86 (225)	3200.225	3210.225
9.84 (250)	3200.250	3210.250

Universal interior separation | Modular shelving for complete flexibility



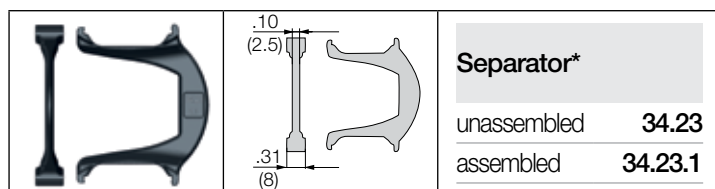
Universal middle plates

The shelves can be inserted from both sides. The shelves are locked in place by means of the integrated slider and additionally when the crossbar is fitted. For unlocking, the crossbar must be removed - on the inner or outer radius.



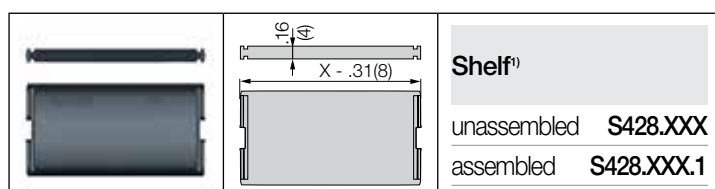
Universal side plates

Allow modular shelving right up to the side links. Shelves can be inserted from both sides.



Separators for universal interior separation

For additional vertical partitioning of the shelf system. When using the separator, the shelves can only be removed in one direction.



Separators¹⁾ for universal interior separation

Shelves of various widths can be arranged in steps of .28 (7mm).

Shelves¹⁾

Width = XXX in. [mm]



xxx in. (mm)	unassembled	assembled	xxx in. (mm)	unassembled	assembled	xxx in. (mm)	unassembled	assembled
.71 (018)	S428.018	S428.018.1	2.28 (058)	S428.058	S428.058.1	3.94 (100*)	S428.100	S428.100.1
.91 (023*)	S428.023	S428.023.1	2.44 (062*)	S428.062	S428.062.1	4.25 (108)	S428.108	S428.108.1
.98 (025*)	S428.025	S428.025.1	2.68 (068*)	S428.068	S428.068.1	4.92 (125*)	S428.125	S428.125.1
1.10 (028*)	S428.028	S428.028.1	2.76 (070)	S428.070	S428.070.1	5.91 (150*)	S428.150	S428.150.1
1.30 (033*)	S428.033	S428.033.1	2.95 (075*)	S428.075	S428.075.1	6.89 (175*)	S428.175	S428.175.1
1.73 (044)	S428.044	S428.044.1	3.27 (083)	S428.083	S428.083.1	7.87 (200*)	S428.200	S428.200.1
1.97 (050)	S428.050	S428.050.1	3.43 (087*)	S428.087	S428.087.1	8.19 (208*)	S428.208	S428.208.1

1) Note: The available width of the lockable shelf Part No. S428.XXX deviates by .31" (8mm) from the width stated in the part number
► page 595

* Available upon request Delivery time upon request.

The next generation of easy-to-assemble e-chains®



Series E4Q.44 | Crossbars every link (crossbars removable along the inner and outer radius)
Series H4Q.44 | Crossbars every 2nd link (crossbars removable along the inner and outer radius)

Part No.		<i>Bi</i>	<i>Ba</i>	E4Q.44	H4Q.44
e-chains®		in. (mm)	in. (mm)	lbs/ft (kg/m)	lbs/ft (kg/m)
E4Q.44 H4Q.44 075.	R.0	2.95 (75)	3.98 (101)	≈ 1.08 (1.61)	≈ 0.96 (1.43)
E4Q.44 H4Q.44 087.	R.0	3.43 (87)	4.49 (114)	≈ 1.11 (1.65)	≈ 0.97 (1.45)
E4Q.44 H4Q.44 100.	R.0	3.94 (100)	4.96 (126)	≈ 1.14 (1.70)	≈ 0.99 (1.47)
E4Q.44 H4Q.44 108.	R.0	4.25 (108)	5.28 (134)	≈ 1.16 (1.73)	≈ 1.00 (1.49)
E4Q.44 H4Q.44 112.	R.0	4.41 (112)	5.47 (139)	≈ 1.17 (1.74)	≈ 1.00 (1.49)
E4Q.44 H4Q.44 125.	R.0	4.92 (125)	5.94 (151)	≈ 1.20 (1.79)	≈ 1.02 (1.52)
E4Q.44 H4Q.44 137.	R.0	5.39 (137)	6.46 (164)	≈ 1.23 (1.83)	≈ 1.03 (1.54)
E4Q.44 H4Q.44 150.	R.0	5.91 (150)	6.93 (176)	≈ 1.32 (1.96)	≈ 1.08 (1.60)
E4Q.44 H4Q.44 162.	R.0	6.38 (162)	7.44 (189)	≈ 1.34 (2.00)	≈ 1.09 (1.63)
E4Q.44 H4Q.44 168.	R.0	6.61 (168)	7.64 (194)	≈ 1.36 (2.03)	≈ 1.10 (1.64)
E4Q.44 H4Q.44 175.	R.0	6.89 (175)	7.91 (201)	≈ 1.38 (2.06)	≈ 1.11 (1.65)
E4Q.44 H4Q.44 187.	R.0	7.36 (187)	8.43 (214)	≈ 1.41 (2.10)	≈ 1.12 (1.67)
E4Q.44 H4Q.44 200.	R.0	7.87 (200)	8.90 (226)	≈ 1.44 (2.15)	≈ 1.14 (1.70)
E4Q.44 H4Q.44 212.	R.0	8.34 (212)	9.41 (239)	≈ 1.47 (2.19)	≈ 1.16 (1.72)
E4Q.44 H4Q.44 225.	R.0	8.86 (225)	9.88 (251)	≈ 1.50 (2.24)	≈ 1.17 (1.74)

**Width available upon request. Delivery time upon request.

Complete Part No. with required radius (*R*). Example: E4Q.44.150.150.0 = crossbars every link / H4Q.44.150.150.0 = crossbars every 2nd link**Available bend radii**

R in. (mm) | 2.95 (075) | 3.94 (100) | 4.53 (115) | 4.92 (125) | 5.91 (150) | 6.30 (160) | 6.89 (175) | 7.87 (200) | 9.84 (250) | 11.81 (300) | 13.78 (350) |

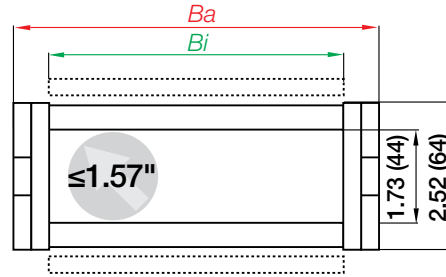
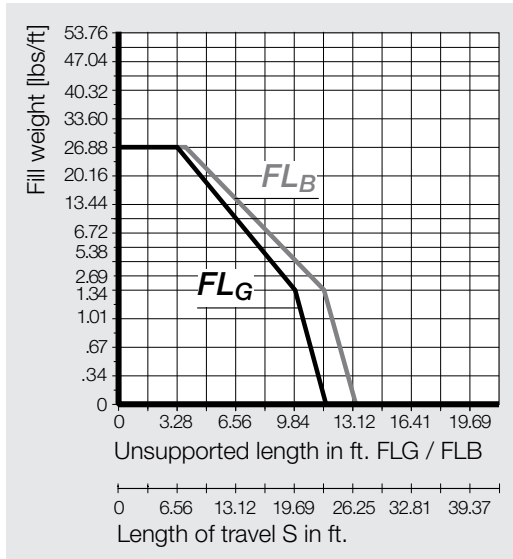


1418

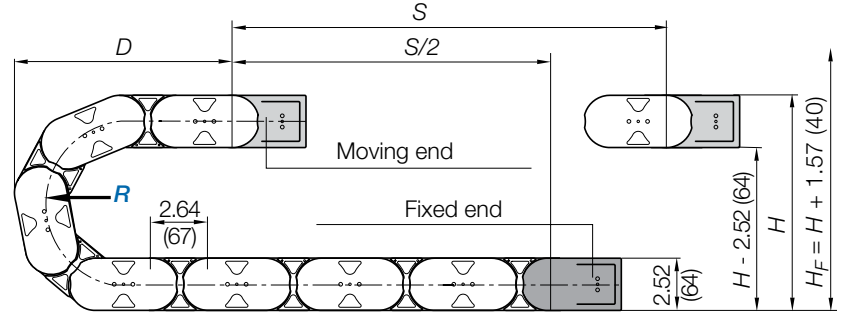


1358

E4Q.44
H4Q.44



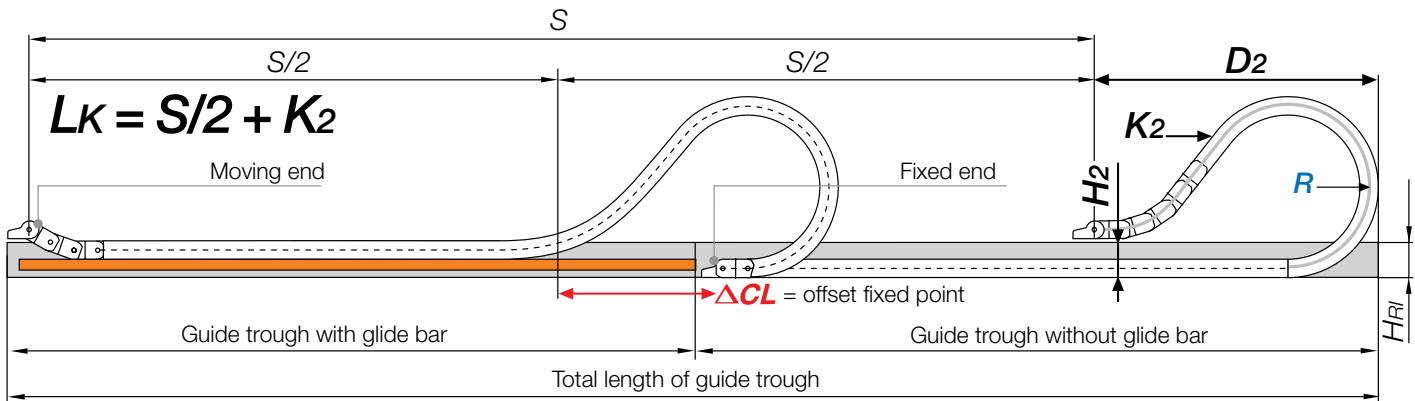
Inner height in. (mm)	1.73 (44)
Pitch per link in. (mm)	2.64 (67)
Links/ft (m)	4.54 (15)
corresponds to (mm)	1,005
e-chain® length	$L_K = \frac{S}{2} + K$



R	2.95 (075)	3.94 (100)	4.53 (115)	4.92 (125)	5.91 (150)	6.30 (160)	6.89 (175)	7.87 (200)	9.84 (250)	11.81 (300)	13.78 (350)
H	8.43 (214)	10.39 (264)	11.57 (294)	12.36 (314)	14.33 (364)	15.12 (384)	16.30 (414)	18.27 (464)	22.20 (564)	26.14 (664)	30.08 (764)
D	8.19 (208)	9.17 (233)	9.76 (248)	10.16 (258)	11.14 (283)	11.54 (293)	12.13 (308)	13.11 (333)	15.08 (383)	17.05 (433)	19.02 (483)
K	14.57 (370)	17.72 (450)	19.69 (500)	20.87 (530)	24.02 (610)	25.20 (640)	26.97 (685)	30.12 (765)	36.22 (920)	42.52 (1080)	48.62 (1235)

The required clearance height: $H_r = H + 1.57$ in. (40 mm) with 2.02 lbs/ft (3.0 kg/m) fill weight.

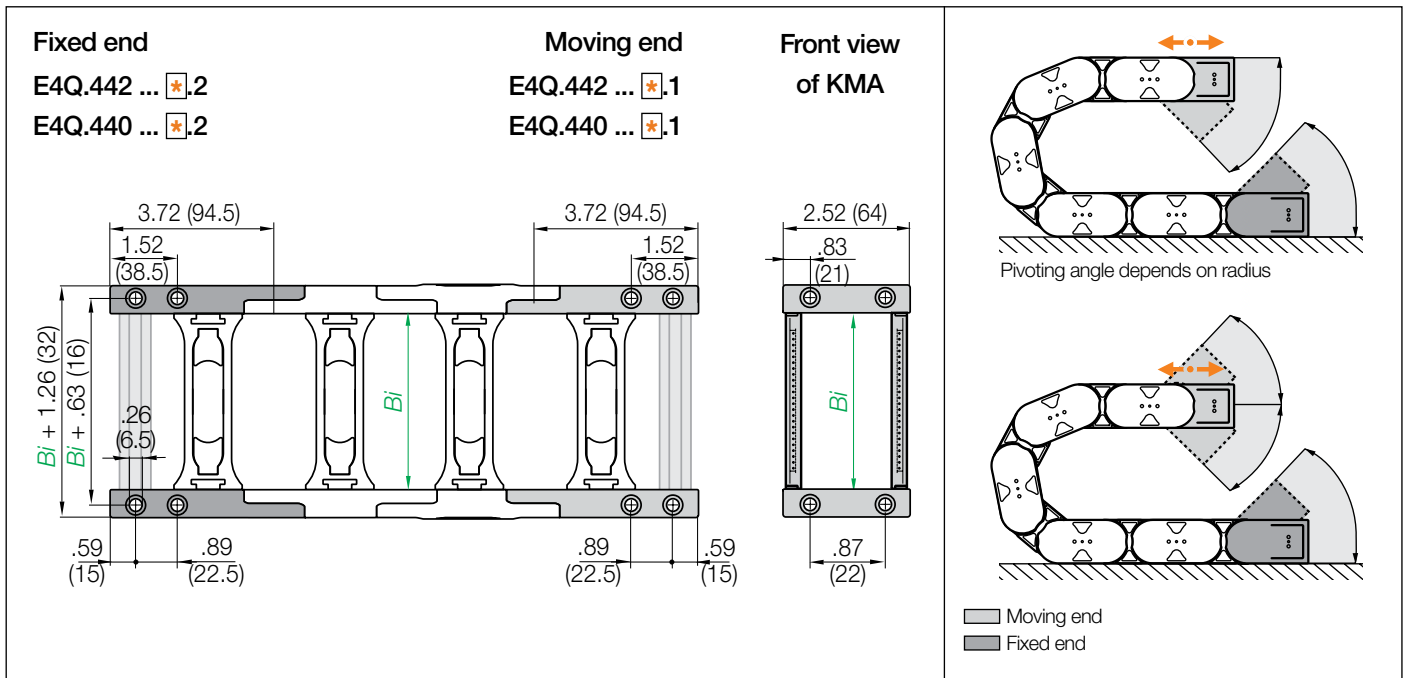
Gliding applications | For travel lengths from 39.3 ft. (12m) to max. 984 ft. (300m)



Note: We recommend the project planning of such a system to be carried out by igus®.

In case of travels between 26.25ft. (8m) and 39.3 ft. (12m) we recommend an e-chain® with a longer unsupported length.

R	2.95 (075)	3.94 (100)	4.53 (115)	4.92 (125)	5.91 (150)	6.30 (160)	6.89 (175)	7.87 (200)	9.84 (250)	11.81 (300)	13.78 (350)
H _r	5.91 (150)	7.32 (186)	7.32 (186)	7.32 (186)	7.32 (186)	7.32 (186)	7.32 (186)	7.32 (186)	7.32 (186)	7.32 (186)	7.32 (186)
D ₂	6.85 (174)	15.35 (390)	17.13 (435)	18.70 (475)	22.44 (570)	24.41 (620)	26.57 (675)	30.71 (780)	40.55 (1030)	45.28 (1150)	59.06 (1500)
K ₂	14.57 (370)	23.74 (603)	29.02 (737)	31.65 (804)	36.93 (938)	42.20 (1072)	44.84 (1139)	52.76 (1340)	65.94 (1675)	76.50 (1943)	94.96 (2412)
ΔCL	–	6.69 (170)	7.87 (200)	9.06 (230)	11.81 (300)	13.39 (340)	14.96 (380)	18.11 (460)	25.98 (660)	28.74 (730)	40.55 (1030)



One end pivoting¹⁾ | Recommended for unsupported, vertical hanging, standing applications
Both ends pivoting | Recommended for gliding applications

		Part No. KMA full set		Bi	
Width	one end pivoting ¹⁾	both ends pivoting	in.	(mm)	
Index					
075.	▶ E4Q.442.075. 12.C	E4Q.440.075. 12.C	2.95	(75)	
087.	▶ E4Q.442.087. 12.C	E4Q.440.087. 12.C	3.43	(87)	
100.	▶ E4Q.442.100. 12.C	E4Q.440.100. 12.C	3.94	(100)	
108.	▶ E4Q.442.108. 12.C	E4Q.440.108. 12.C	4.25	(108)	
112.	▶ E4Q.442.112. 12.C	E4Q.440.112. 12.C	4.41	(112)	
125.	▶ E4Q.442.125. 12.C	E4Q.440.125. 12.C	4.92	(125)	
137.	▶ E4Q.442.137. 12.C	E4Q.440.137. 12.C	5.39	(137)	
150.	▶ E4Q.442.150. 12.C	E4Q.440.150. 12.C	5.91	(150)	
162.	▶ E4Q.442.162. 12.C	E4Q.440.162. 12.C	6.38	(162)	
168.	▶ E4Q.442.168. 12.C	E4Q.440.168. 12.C	6.61	(168)	
175.	▶ E4Q.442.175. 12.C	E4Q.440.175. 12.C	6.89	(175)	
187.	▶ E4Q.442.187. 12.C	E4Q.440.187. 12.C	7.36	(187)	
200.	▶ E4Q.442.200. 12.C	E4Q.440.200. 12.C	7.87	(200)	
212.	▶ E4Q.442.212. 12.C	E4Q.440.212. 12.C	8.35	(212)	
225.	▶ E4Q.442.225. 12.C	E4Q.440.225. 12.C	8.86	(225)	

		Part No. KMA full set		Bi	
Width	one end pivoting ¹⁾	both ends pivoting	in.	(mm)	
Index					
237.	▶ E4Q.442.237. 12.C	E4Q.440.237. 12.C	9.33	(237)	
250.	▶ E4Q.442.250. 12.C	E4Q.440.250. 12.C	9.84	(250)	
262.	▶ E4Q.442.262. 12.C	E4Q.440.262. 12.C	10.31	(262)	
275.	▶ E4Q.442.275. 12.C	E4Q.440.275. 12.C	10.83	(275)	
287.	▶ E4Q.442.287. 12.C	E4Q.440.287. 12.C	11.30	(287)	
300.	▶ E4Q.442.300. 12.C	E4Q.440.300. 12.C	11.81	(300)	
312.	▶ E4Q.442.312. 12.C**	E4Q.440.312. 12.C**	12.28	(312)	
325.	▶ E4Q.442.325. 12.C**	E4Q.440.325. 12.C**	12.80	(325)	
337.	▶ E4Q.442.337. 12.C**	E4Q.440.337. 12.C**	13.27	(337)	
350.	▶ E4Q.442.350. 12.C	E4Q.440.350. 12.C	13.78	(350)	
362.	▶ E4Q.442.362. 12.C**	E4Q.440.362. 12.C**	14.25	(362)	
375.	▶ E4Q.442.375. 12.C	E4Q.440.375. 12.C	14.76	(375)	
387.	▶ E4Q.442.387. 12.C	E4Q.440.387. 12.C	15.24	(387)	
400.	▶ E4Q.442.400. 12.C	E4Q.440.400. 12.C	15.75	(400)	

1) One end pivoting - standard for E4Q mounting brackets. For the C-profile option please add index .C

**Width available upon request. Delivery time upon request. (KMA = polymer metal mounting bracket)

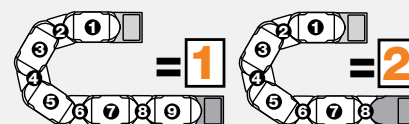
GSC glide pads - longer service life in abrasive environment

- Low-friction and low-wear gliding elements increase the service life of igus® e-chains® in gliding applications
 - Easy to retrofit, opening crossbars remain accessible
- More information ▶ www.igus.com/glide-pad



KMA mounting brackets | Attachment from any side | Pivoting

Note *: The e-chains® may end with either an inner or an outer side link. An outer side link should always be the first e-chain® link at the moving end. Please specify the index **1** (for odd) or **2** (for even) depending on an even or odd number of links required.



Possible orientations for KMA mounting brackets. For mounting brackets pre-fitted **without C-profile**, please attach index **.A**. For types pre-fitted **with C-profile** please attach index **.A1**, **.A2**, **.A3** or **.A4**.

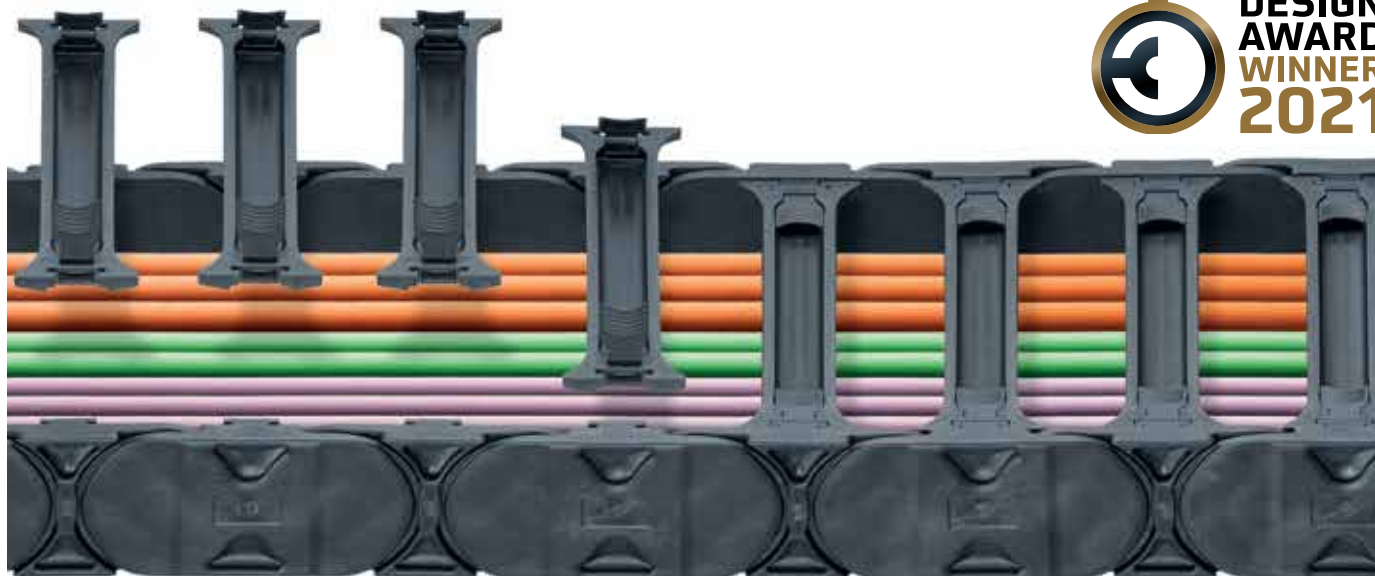
E4Q.442.150.2.12.C.A2 Order example
.A... to indicate option with brackets pre-fitted
 C-profile option
 Full set, one end pivoting
 Even numbers of links
 width index
 Series



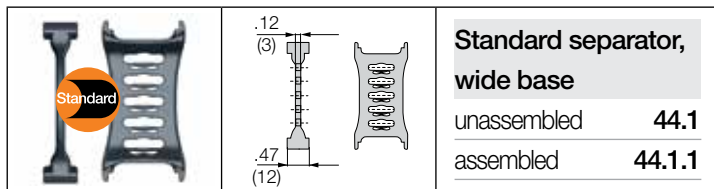
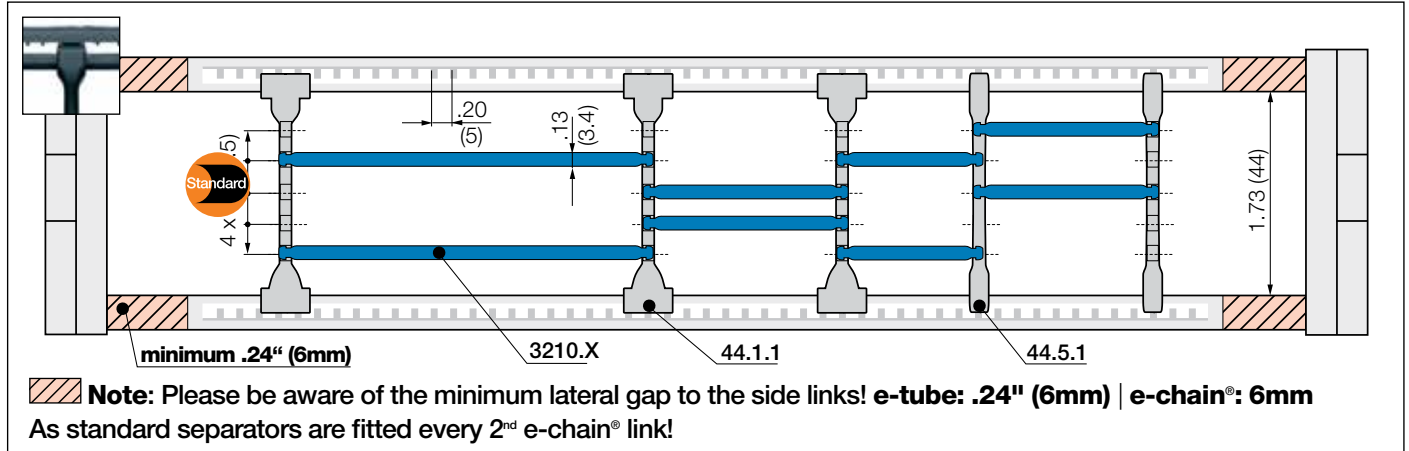
Strain relief e.g. clamps, tie-wrap plates, nuggets and clips are available from stock. The complete chainfix range with ordering options ► From page 1418

Steel support tray for support of the lower run

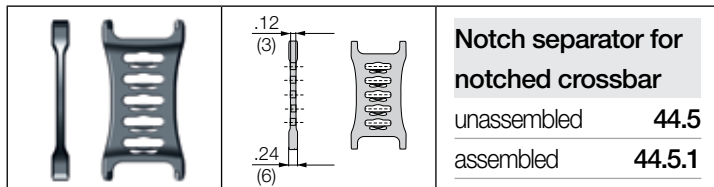
- Simple one-piece support trays for the lower run
 - To your requirements and specification
 - 4 options available
- More information ► From page 1394



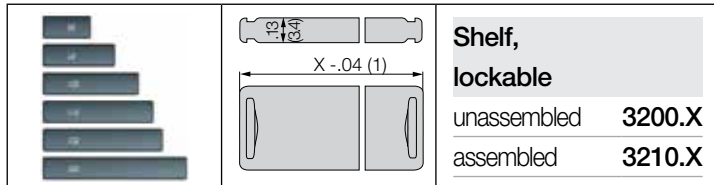
The E4Q series combines ease of installation with a new level of strength and stability

**Standard - for any application**

Separator with a wide base for maximum holding force.

**Locks securely in preset increments**

Notch separator for exact positioning. Recommended for side-mounted applications.

**Horizontal separation**

Full-width shelf locks securely into separators at both ends, giving a fixed width. Can be used as full-width or partial shelf.

Shelves

Width = X in. (mm)

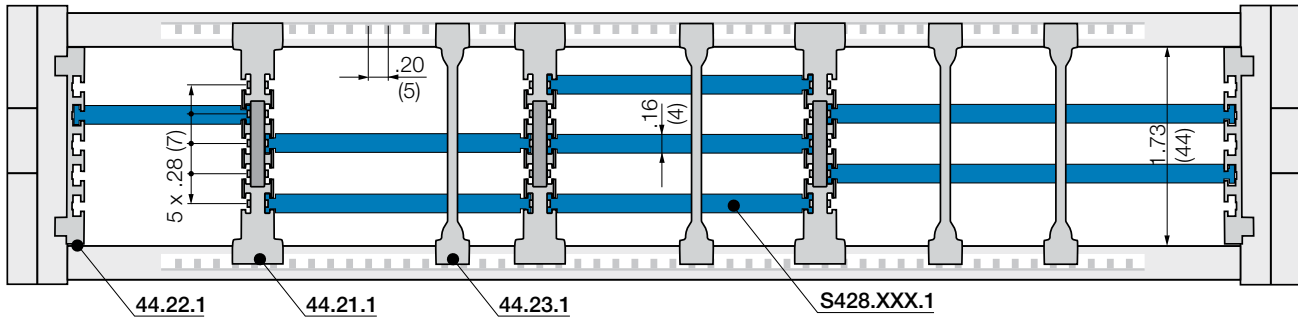


X in. (mm)	unassembled	assembled
1.97 (050)	3200.050	3210.050
2.95 (075)	3200.075	3210.075
3.94 (100)	3200.100	3210.100
4.53 (115)	3200.115	3210.115

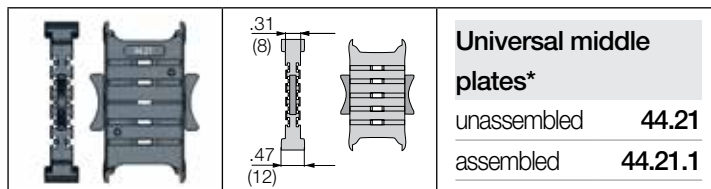
X in. (mm)	unassembled	assembled
4.92 (125)	3200.125	3210.125
5.91 (150)	3200.150	3210.150
6.89 (175)	3200.175	3210.175
7.87 (200)	3200.200	3210.200

X in. (mm)	unassembled	assembled
8.86 (225)	3200.225	3210.225
9.84 (250)	3200.250	3210.250

Universal interior separation | Modular shelving for complete flexibility



Note: Please be aware of the minimum lateral gap to the side links! **e-tube: .24" (6mm) | e-chain®: 6mm**
As standard separators are fitted every 2nd e-chain® link!

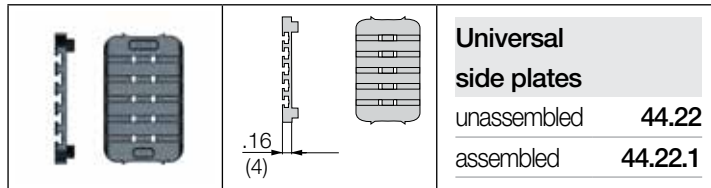


Universal middle plates*

unassembled	44.21
assembled	44.21.1

Universal middle plates

The shelves can be inserted from both sides. The shelves are locked in place by means of the integrated slider and additionally when the crossbar is fitted. For unlocking, the crossbar must be removed - on the inner or outer radius.

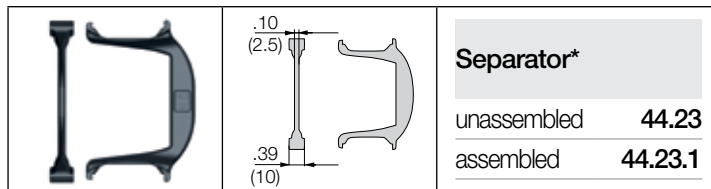


Universal side plates

unassembled	44.22
assembled	44.22.1

Universal side plates

Allow modular shelving right up to the side links. Shelves can be inserted from both sides.

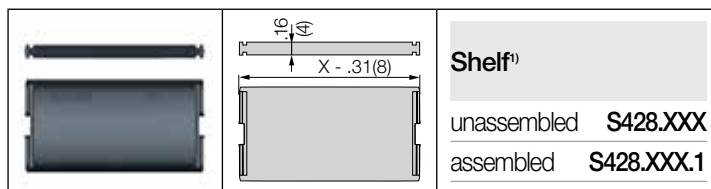


Separator*

unassembled	44.23
assembled	44.23.1

Separators for universal interior separation

For additional vertical partitioning of the shelf system. When using the separator, the shelves can only be removed in one direction.



Shelf¹⁾

unassembled	S428.XXX
assembled	S428.XXX.1

Separators¹⁾ for universal interior separation

Shelves of various widths can be arranged in steps of .28 (7mm).

Shelves¹⁾

Width = XXX in. [mm]

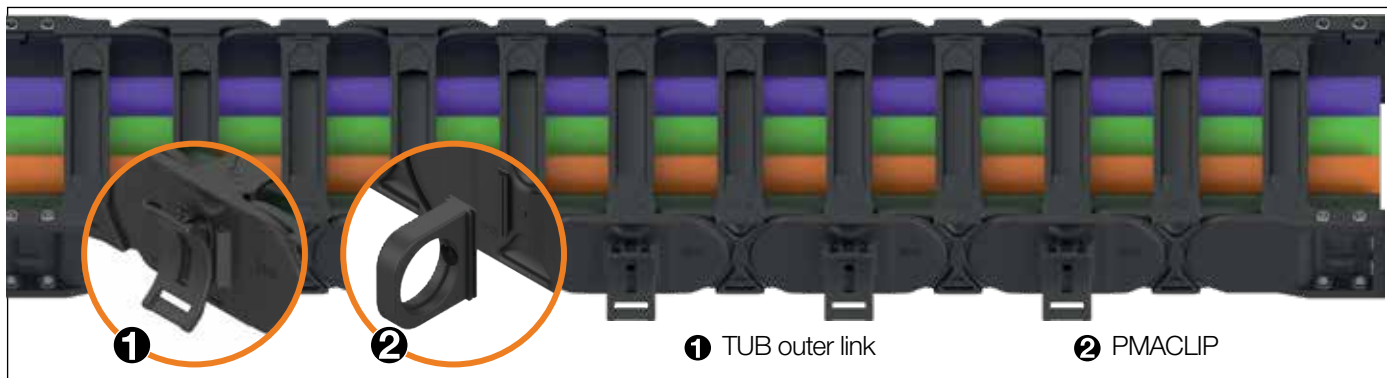


xxx in. (mm)	unassembled	assembled	xxx in. (mm)	unassembled	assembled	xxx in. (mm)	unassembled	assembled
.71 (018)	S428.018	S428.018.1	2.28 (058)	S428.058	S428.058.1	3.94 (100*)	S428.100	S428.100.1
.91 (023*)	S428.023	S428.023.1	2.44 (062*)	S428.062	S428.062.1	4.25 (108)	S428.108	S428.108.1
.98 (025*)	S428.025	S428.025.1	2.68 (068*)	S428.068	S428.068.1	4.92 (125*)	S428.125	S428.125.1
1.10 (028*)	S428.028	S428.028.1	2.76 (070)	S428.070	S428.070.1	5.91 (150*)	S428.150	S428.150.1
1.30 (033*)	S428.033	S428.033.1	2.95 (075*)	S428.075	S428.075.1	6.89 (175*)	S428.175	S428.175.1
1.73 (044)	S428.044	S428.044.1	3.27 (083)	S428.083	S428.083.1	7.87 (200*)	S428.200	S428.200.1
1.97 (050)	S428.050	S428.050.1	3.43 (087*)	S428.087	S428.087.1	8.19 (208*)	S428.208	S428.208.1

1) Note: The available width of the lockable shelf Part No. S428.XXX deviates by .31" (8mm) from the width stated in the part number
► page 595

* Available upon request Delivery time upon request.

TUB



TUB | Simply guide parallel to the e-chain® -

TUB links in conjunction with PMA CLIP supports or the SHM.60 hose clamp

- Guide additional cable, hose, or corrugated tubes parallel to an existing e-chain®
- Retrofitting is easy - just install PMA CLIP supports
- Sizes from .67" - 1.89" (17-48mm) or add the hose clamp to guide large hoses with 2.36" (60mm)
- Easy access to the corrugated tubes, fast replacement of the hoses

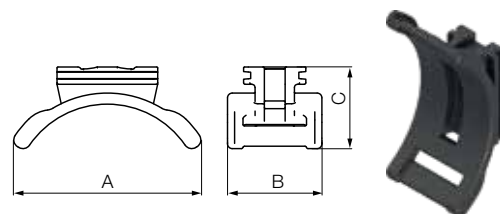
Part No. TUB	Part No. TUB	Part No. TUB	PMA CLIP	SHM.60 hose clamp
Outer link right*	Outer link left*	Outer link at both ends*	NW Ø in. (mm)	NW Ø in. (mm)
E4Q.44.XXXTUBR.RRR.0	E4Q.44.XXXTUBL.RRR.0	E4Q.44.XXXTUB.RRR.0	.28 (7), .39 (10), .47 (12), .67 (17), .93 (23.)	2.36 (60)

*View from the fixed end

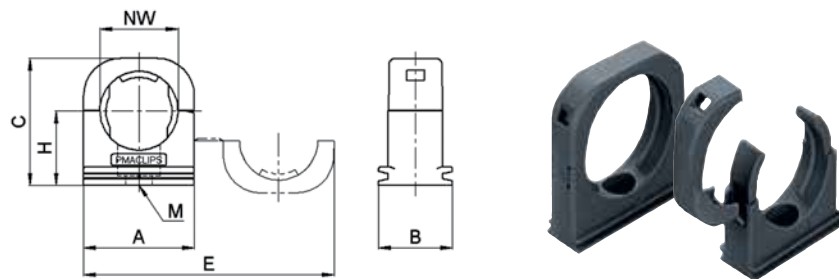
Part number appended with width index **XXX** of **Bi** and radius (**R**) e.g. E4Q.44.125TUBR.150.0 = with TUB outer sections every 2nd right hand link

Product range | Hose clamp

Part number	NW	A	B	C
Hose clamp	Ø in. (mm)	in. (mm)	in. (mm)	in. (mm)
SHM.60	2.36 (60)	2.36 (60)	1.18 (30)	1.02 (25.9)

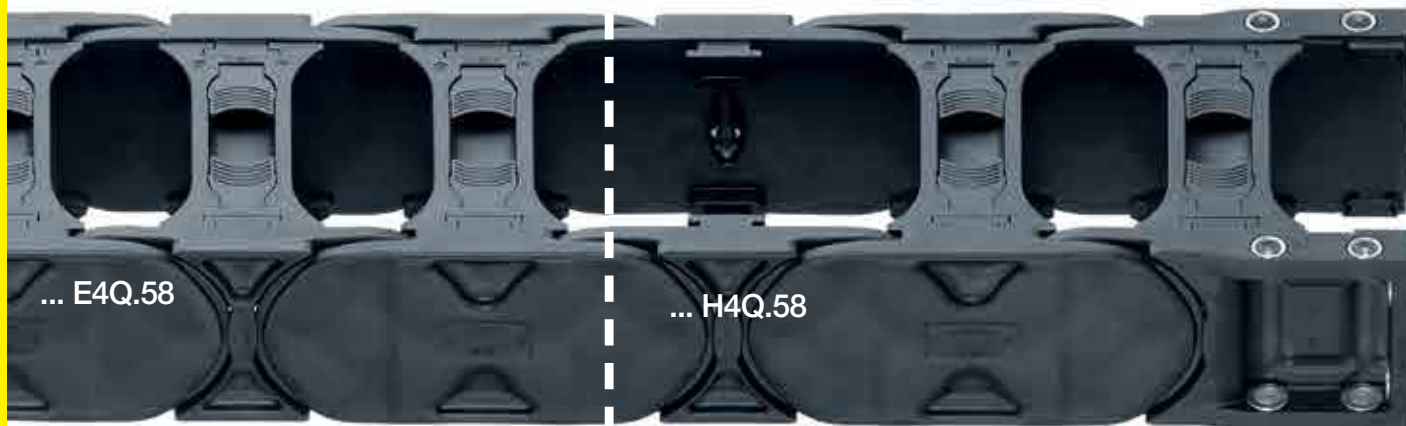


Product range | PMA CLIP | Support, one-piece, with safety clip



PMA CLIP support - one-piece construction with safety clip, suitable for corrugated tubes

Part number	NW	A	B	C	H	E	M
PMA CLIP	Ø in. (mm)	in. (mm)	in. (mm)	in. (mm)	in. (mm)	in. (mm)	in. (mm)
I-BFH-17-0	.67 (17)	1.18 (30.0)	.79 (20)	1.34 (34)	.79 (20)	2.68 (68)	M6
I-BFH-23-0	.91 (23)	1.52 (38.5)	.79 (20)	1.65 (42)	.94 (24)	3.35 (85)	M6
I-BFH-29-0	1.14 (29)	1.79 (45.5)	.79 (20)	1.89 (48)	1.06 (27)	3.89 (99)	M6
I-BFH-36-0	1.42 (36)	2.19 (55.5)	.79 (20)	2.20 (56)	1.22 (31)	4.69 (119)	M6
I-BFH-48-0	1.89 (48)	2.66 (67.5)	.79 (20)	2.68 (68)	1.46 (37)	5.63 (143)	M6



Series E4Q.58 | Crossbars every link (crossbars removable along the inner and outer radius)
Series H4Q.58 | Crossbars every 2nd link (crossbars removable along the inner and outer radius)

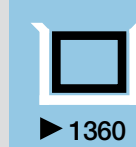
Part No.			<i>Bi</i>	<i>Ba</i>	E4Q.58	H4Q.58
e-chains®			in. (mm)	in. (mm)	lbs/ft (kg/m)	lbs/ft (kg/m)
E4Q.58	H4Q.58	100.	R.0	3.94 (100)	5.28 (134)	≈ 2.46 (3.66)
E4Q.58	H4Q.58	112.	R.0	4.41 (112)	5.79 (147)	≈ 2.50 (3.72)
E4Q.58	H4Q.58	125.	R.0	4.92 (125)	6.26 (159)	≈ 2.52 (3.75)
E4Q.58	H4Q.58	137.	R.0	5.39 (137)	6.77 (172)	≈ 2.55 (3.80)
E4Q.58	H4Q.58	150.	R.0	5.91 (150)	7.24 (184)	≈ 2.61 (3.89)
E4Q.58	H4Q.58	162.	R.0	6.38 (162)	7.76 (197)	≈ 2.65 (3.95)
E4Q.58	H4Q.58	175.	R.0	6.89 (175)	8.23 (209)	≈ 2.67 (3.98)
E4Q.58	H4Q.58	187.	R.0	7.36 (187)	8.74 (222)	≈ 2.70 (4.02)
E4Q.58	H4Q.58	200.	R.0	7.87 (200)	9.21 (234)	≈ 2.78 (4.14)
E4Q.58	H4Q.58	212.	R.0	8.34 (212)	9.72 (247)	≈ 2.82 (4.19)
E4Q.58	H4Q.58	225.	R.0	8.86 (225)	10.20 (259)	≈ 2.83 (4.21)
E4Q.58	H4Q.58	237.	R.0	9.33 (237)	10.71 (272)	≈ 2.85 (4.24)
E4Q.58	H4Q.58	250.	R.0	9.84 (250)	11.18 (284)	≈ 2.89 (4.30)
E4Q.58	H4Q.58	262.	R.0	10.31 (262)	11.69 (297)	≈ 2.91 (4.33)
E4Q.58	H4Q.58	275.	R.0	10.83 (275)	12.17 (309)	≈ 2.96 (4.41)
E4Q.58	H4Q.58	287.	R.0	11.30 (287)	12.68 (322)	≈ 2.98 (4.44)
E4Q.58	H4Q.58	300.	R.0	11.81 (300)	13.15 (334)	≈ 3.04 (4.52)
E4Q.58	H4Q.58	312.	R.0	12.28 (312)	13.66 (347)	≈ 3.07 (4.57)
E4Q.58	H4Q.58	325.	R.0	12.80 (325)	14.13 (359)	≈ 3.11 (4.63)

**Width available upon request. Delivery time upon request.

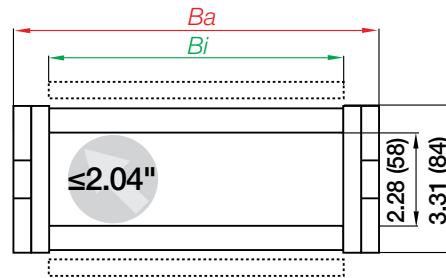
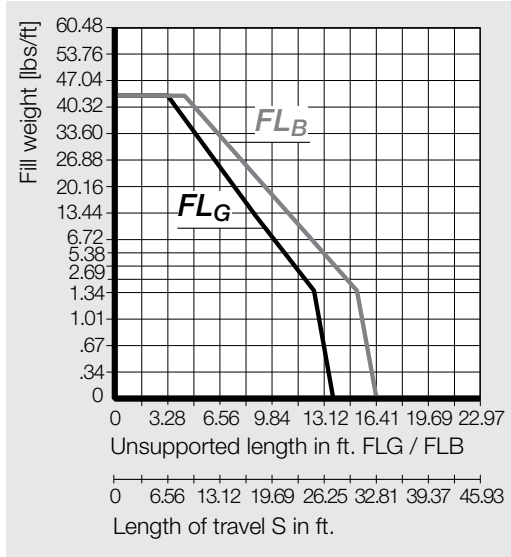
Complete Part No. with required radius (*R*). Example: E4Q.58.100.135.0 = crossbars every link / H4Q.58.100.135.0 = crossbars every 2nd link

Available bend radii

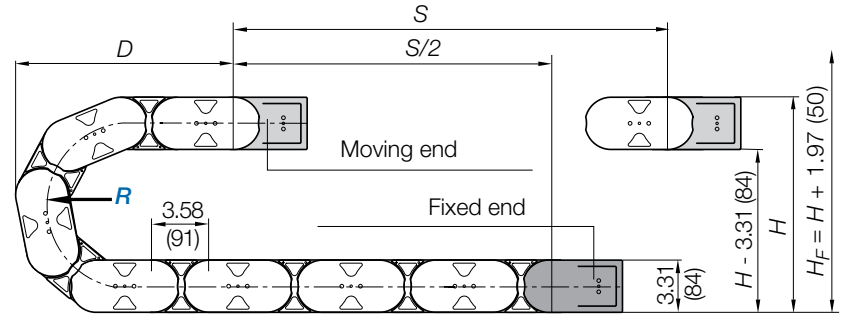
R in. (mm) | 5.31 (135) | 5.91 (150) | 6.89 (175) | 7.87 (200) | 9.45 (240) | 9.84 (250) | 11.81 (300) | 13.78 (350) | 15.75 (400) | 17.72 (450) | 19.69 (500) |



Unsupported applications | Short travels



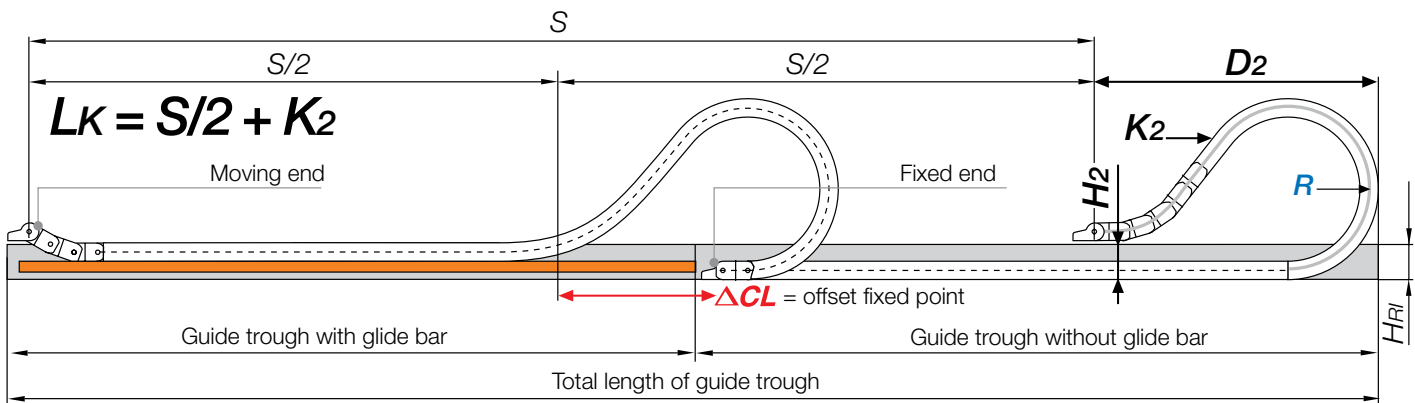
Inner height in. (mm)	2.28 (58)
Pitch per link in. (mm)	3.58 (91)
Links/ft (m)	3.35 (11)
corresponds to (mm)	1,001
e-chain® length	$L_K = \frac{S}{2} + K$



R	4.92 (135)	5.91 (150)	6.89 (175)	7.87 (200)	9.45 (240)	9.84 (250)	11.81 (300)	13.78 (350)	15.75 (400)	17.71 (450)	19.69 (500)
H	13.94 (354)	14.33 (364)	17.09 (434)	19.06 (484)	22.20 (564)	22.99 (584)	26.93 (684)	30.87 (784)	34.80 (884)	38.74 (984)	42.68 (1084)
D	12.36 (314)	12.95 (329)	13.94 (354)	14.92 (379)	16.50 (419)	16.89 (429)	18.86 (479)	20.83 (529)	22.80 (579)	24.76 (629)	26.73 (679)
K	24.02 (610)	25.79 (655)	28.94 (735)	32.09 (815)	37.01 (940)	38.19 (970)	44.29 (1125)	50.59 (1285)	56.69 (1440)	62.99 (1600)	69.09 (1755)

The required clearance height: $H_r = H + 1.97$ in. (50 mm) with 2.02 lbs/ft (3.0 kg/m) fill weight.

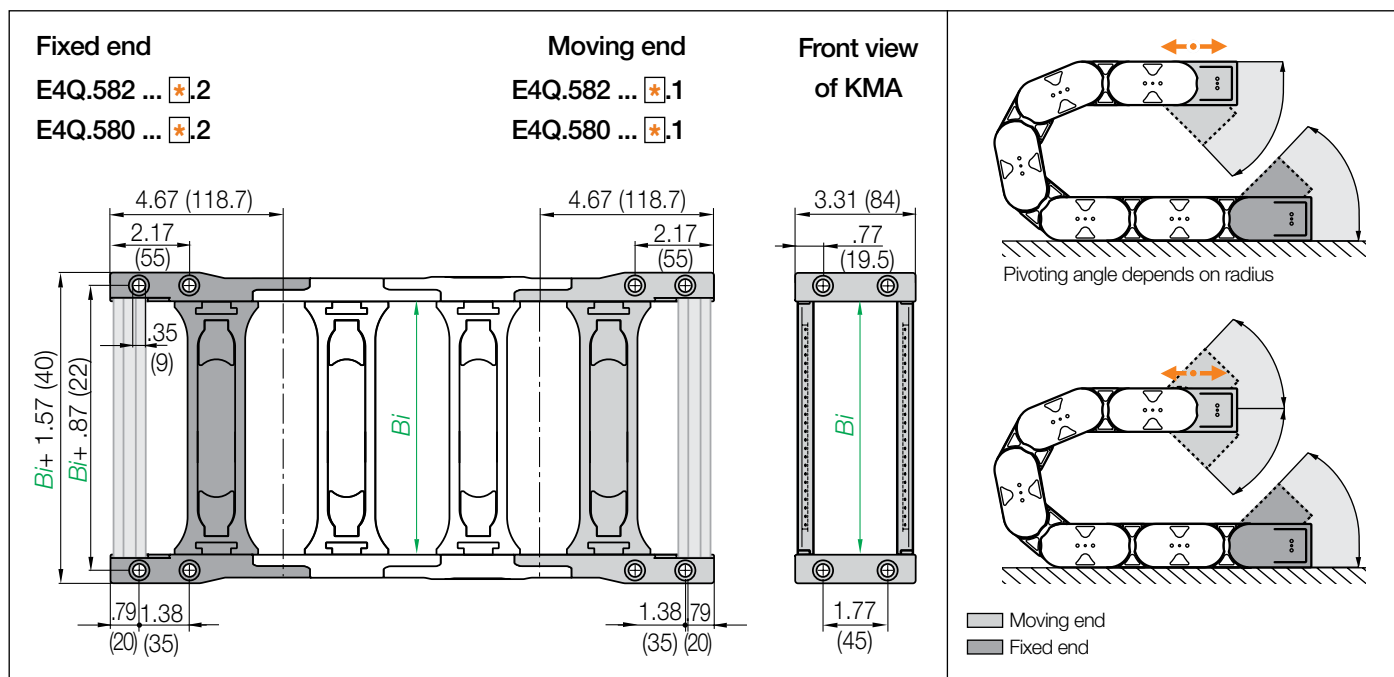
Gliding applications | For travel lengths from 39.3 ft. (12m) to max. 1312 ft. (400m)



Note: We recommend the project planning of such a system to be carried out by igus®.

In case of travels between 32.81ft. (10m) and 39.3 ft. (12m) we recommend an e-chain® with a longer unsupported length.

R	4.92 (135)	5.91 (150)	6.89 (175)	7.87 (200)	9.45 (240)	9.84 (250)	11.81 (300)	13.78 (350)	15.75 (400)	17.71 (450)	19.69 (500)
H_2	10.63 (270)	10.47 (266)	10.47 (266)	10.47 (266)	10.47 (266)	10.47 (266)	10.47 (266)	10.47 (266)	10.47 (266)	10.47 (266)	10.47 (266)
$D_2 + 25$	10.55 (268)	17.72 (450)	22.83 (580)	27.95 (710)	35.43 (900)	38.58 (980)	46.46 (1180)	56.69 (1440)	60.24 (1530)	66.93 (1700)	72.83 (1850)
K_2	24.02 (610)	32.24 (819)	42.99 (1092)	50.16 (1274)	60.91 (1547)	64.49 (1638)	78.82 (2002)	89.57 (2275)	100.31 (2548)	114.65 (2912)	128.98 (3276)
ΔCL	-	6.26 (159)	10.20 (259)	14.13 (359)	20.04 (509)	22.01 (559)	27.91 (709)	35.79 (909)	37.76 (959)	41.69 (1059)	45.63 (1159)



One end pivoting¹⁾ | Recommended for unsupported, vertical hanging, standing applications
 Both ends pivoting | Recommended for gliding applications

Width Index	Part No. KMA full set			Bi	in.	(mm)
	one end pivoting ¹⁾	both ends pivoting				
100.	E4Q.582.100.*12.C	E4Q.580.100.*12.C		3.94	(100)	
112.	E4Q.582.112.*12.C	E4Q.580.112.*12.C**		4.41	(112)	
125.	E4Q.582.125.*12.C	E4Q.580.125.*12.C		4.92	(125)	
137.	E4Q.582.137.*12.C	E4Q.580.137.*12.C**		5.39	(137)	
150.	E4Q.582.150.*12.C	E4Q.580.150.*12.C		5.91	(150)	
162.	E4Q.582.162.*12.C	E4Q.580.162.*12.C		6.38	(162)	
175.	E4Q.582.175.*12.C	E4Q.580.175.*12.C		6.89	(175)	
187.	E4Q.582.187.*12.C	E4Q.580.187.*12.C		7.36	(187)	
200.	E4Q.582.200.*12.C	E4Q.580.200.*12.C		7.87	(200)	
212.	E4Q.582.212.*12.C	E4Q.580.212.*12.C		8.35	(212)	
225.	E4Q.582.225.*12.C	E4Q.580.225.*12.C		8.86	(225)	
237.	E4Q.582.237.*12.C	E4Q.580.237.*12.C		9.33	(237)	
250.	E4Q.582.250.*12.C	E4Q.580.250.*12.C		9.84	(250)	
262.	E4Q.582.262.*12.C	E4Q.580.262.*12.C		10.31	(262)	
275.	E4Q.582.275.*12.C	E4Q.580.275.*12.C		10.83	(275)	
287.	E4Q.582.287.*12.C	E4Q.580.287.*12.C		11.30	(287)	
300.	E4Q.582.300.*12.C	E4Q.580.300.*12.C		11.81	(300)	
312.	E4Q.582.312.*12.C	E4Q.580.312.*12.C		12.28	(312)	
325.	E4Q.582.325.*12.C	E4Q.580.325.*12.C		12.80	(325)	

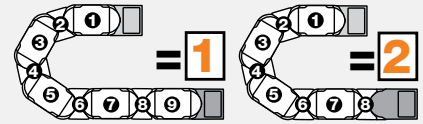
Width Index	Part No. KMA full set			Bi	in.	(mm)
	one end pivoting ¹⁾	both ends pivoting				
337.	E4Q.582.337.*12.C	E4Q.580.337.*12.C		13.27	(337)	
350.	E4Q.582.350.*12.C	E4Q.580.350.*12.C		13.78	(350)	
362.	E4Q.582.362.*12.C	E4Q.580.362.*12.C		14.25	(362)	
375.	E4Q.582.375.*12.C	E4Q.580.375.*12.C		14.76	(375)	
387.	E4Q.582.387.*12.C	E4Q.580.387.*12.C		15.24	(387)	
400.	E4Q.582.400.*12.C	E4Q.580.400.*12.C		15.75	(400)	
412.	E4Q.582.412.*12.C	E4Q.580.412.*12.C		16.22	(412)	
425.	E4Q.582.425.*12.C	E4Q.580.425.*12.C		16.73	(425)	
437.	E4Q.582.437.*12.C	E4Q.580.437.*12.C		17.20	(437)	
450.	E4Q.582.450.*12.C	E4Q.580.450.*12.C		17.72	(450)	
462.	E4Q.582.462.*12.C**	E4Q.580.462.*12.C**		18.19	(462)	
475.	E4Q.582.475.*12.C**	E4Q.580.475.*12.C**		18.70	(475)	
487.	E4Q.582.487.*12.C**	E4Q.580.487.*12.C**		19.17	(487)	
500.	E4Q.582.500.*12.C	E4Q.580.500.*12.C		19.69	(500)	
512.	E4Q.582.512.*12.C**	E4Q.580.512.*12.C**		20.16	(512)	
525.	E4Q.582.525.*12.C**	E4Q.580.525.*12.C**		20.67	(525)	
537.	E4Q.582.537.*12.C**	E4Q.580.537.*12.C**		21.14	(537)	
550.	E4Q.582.550.*12.C**	E4Q.580.550.*12.C**		21.65	(550)	
600.	E4Q.582.600.*12.C**	E4Q.580.600.*12.C**		23.62	(600)	

1) One end pivoting - standard for E4Q mounting brackets. For the C-profile option please add index .C

**Width available upon request. Delivery time upon request. (KMA = polymer metal mounting bracket)

KMA mounting brackets | Attachment from any side | Pivoting

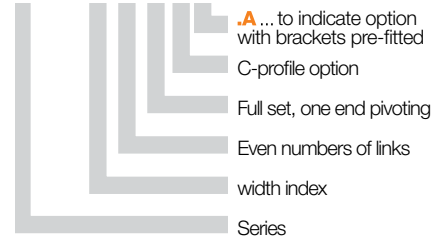
Note *: The e-chains® may end with either an inner or an outer side link. An outer side link should always be the first e-chain® link at the moving end. Please specify the index **1** (for odd) or **2** (for even) depending on an even or odd number of links required.



Possible orientations for KMA mounting brackets. For mounting brackets pre-fitted **without C-profile**, please attach index **.A**. For types pre-fitted **with C-profile** please attach index **.A1**, **.A2**, **.A3** or **.A4**.

E4Q.582.125.2.12.C.A2

Order example



Strain relief e.g. clamps, tiewrap plates, nuggets and clips are available from stock. The complete chainfix range with ordering options ► From page 1418

Steel support tray for support of the lower run

- Simple one-piece support trays for the lower run
- To your requirements and specification
- 4 options available

More information ► From page 1394

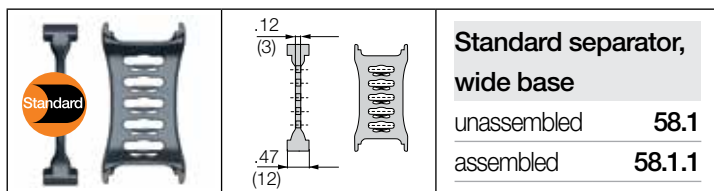
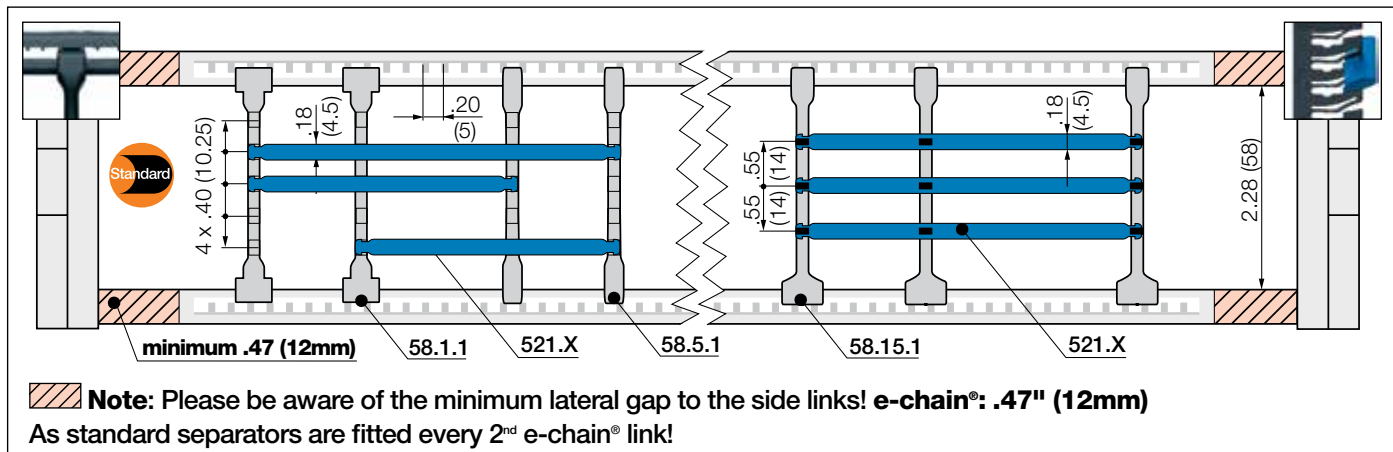


GSC glide pads - longer service life in abrasive environment

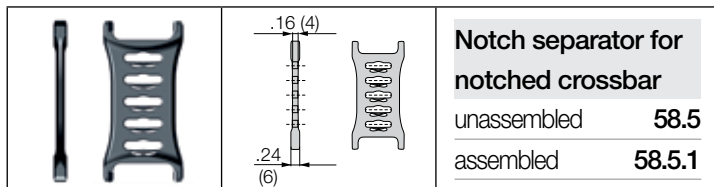
- Low-friction and low-wear gliding elements increase the service life of igus® e-chains® in gliding applications
- Easy to retrofit, opening crossbars remain accessible

More information ► www.igus.com/glide-pad

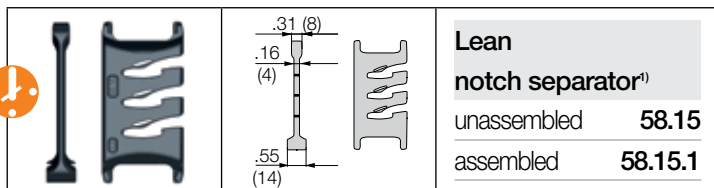


**Standard - for any application**

Separator with a wide base for maximum holding force.

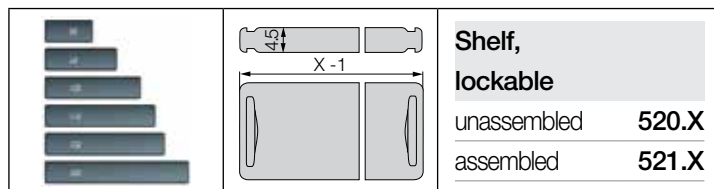
**Locks securely in preset increments**

Notch separator for exact positioning. Recommended for side-mounted applications.

**Lean notch separators¹⁾**

For quick fitting of shelves in several layers. Snaps securely into the crossbar in 5mm steps to be positioned securely.

1) Note: Please combine maximum 4 lean separators with one shelf. Not suitable for side-mounted e-chains²⁾!

**Horizontal separation**

Full-width shelf locks securely into separators at both ends, giving a fixed width. Can be used as full-width or partial shelf.

Shelves

Width = X in. (mm)



X in. (mm)	unassembled	assembled	X in. (mm)	unassembled	assembled	X in. (mm)	unassembled	assembled
1.97 (050)	520.050	521.050	5.91 (150)	520.150	521.150	11.81 (300)	520.300	521.300
2.56 (065)	520.065	521.065	6.89 (175)	520.175	521.175	13.78 (350)	520.350	521.350
2.95 (075)	520.075	521.075	7.87 (200)	520.200	521.200	14.76 (375)	520.375	521.375
3.94 (100)	520.100	521.100	8.86 (225)	520.225	521.225	15.24 (387)	520.387	521.387
4.92 (125)	520.125	521.125	9.84 (250)	520.250	521.250	17.72 (450)	520.450	521.450

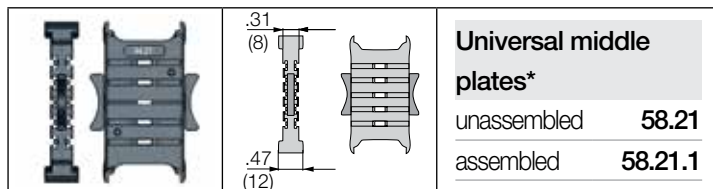
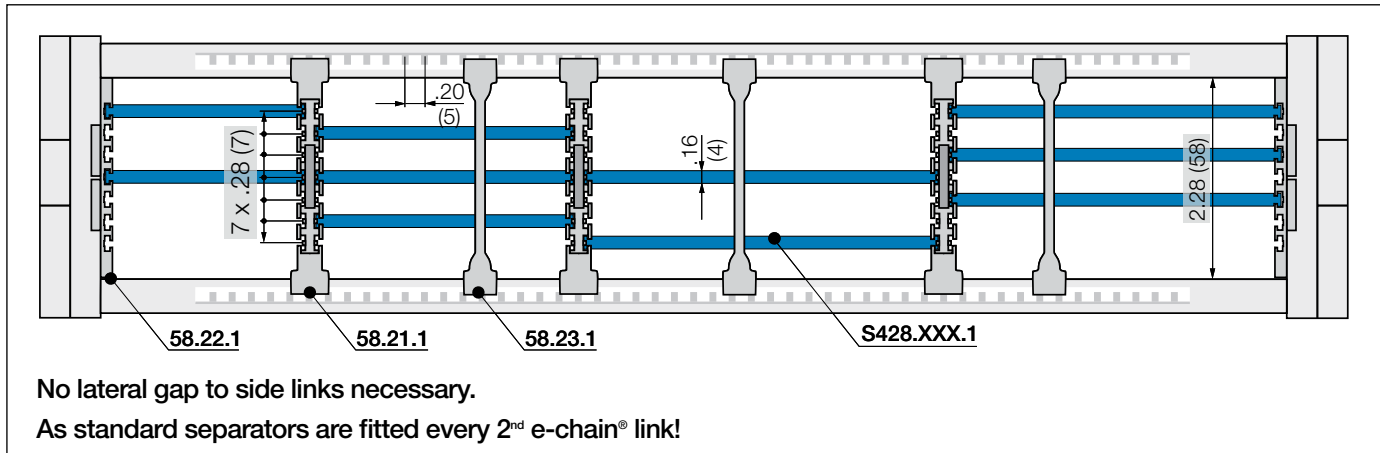
Lean notch separator design principle | For even faster filling

With the lean separator you can quickly insert several layers of cables into the e-chain® and reduce the installation time by up to 50%²⁾.

²⁾ Lean interior separation vs. standard interior separation - measured on a 4m long e-chain® fitted with 12 cables in the igus® lab

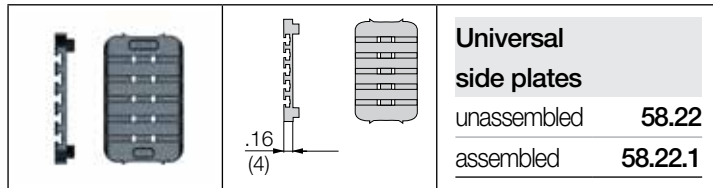


Universal interior separation | Modular shelving for complete flexibility



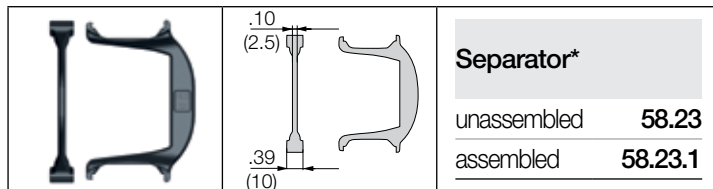
Universal middle plates

The shelves can be inserted from both sides. The shelves are locked in place by means of the integrated slider and additionally when the crossbar is fitted. For unlocking, the crossbar must be removed - on the inner or outer radius.



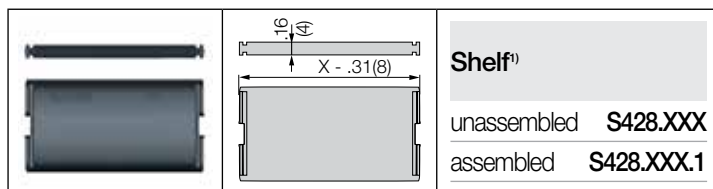
Universal side plates

Allow modular shelving right up to the side links. Shelves can be inserted from both sides.



Separators for universal interior separation

For additional vertical partitioning of the shelf system. When using the separator, the shelves can only be removed in one direction.



Separators¹⁾ for universal interior separation

Shelves of various widths can be arranged in steps of .28 (7mm).

Shelves¹⁾

Width = XXX in. [mm]



xxx in. (mm)	unassembled	assembled	xxx in. (mm)	unassembled	assembled	xxx in. (mm)	unassembled	assembled
.71 (018)	S428.018	S428.018.1	2.28 (058)	S428.058	S428.058.1	3.94 (100*)	S428.100	S428.100.1
.91 (023*)	S428.023	S428.023.1	2.44 (062*)	S428.062	S428.062.1	4.25 (108)	S428.108	S428.108.1
.98 (025*)	S428.025	S428.025.1	2.68 (068*)	S428.068	S428.068.1	4.92 (125*)	S428.125	S428.125.1
1.10 (028*)	S428.028	S428.028.1	2.76 (070)	S428.070	S428.070.1	5.91 (150*)	S428.150	S428.150.1
1.30 (033*)	S428.033	S428.033.1	2.95 (075*)	S428.075	S428.075.1	6.89 (175*)	S428.175	S428.175.1
1.73 (044)	S428.044	S428.044.1	3.27 (083)	S428.083	S428.083.1	7.87 (200*)	S428.200	S428.200.1
1.97 (050)	S428.050	S428.050.1	3.43 (087*)	S428.087	S428.087.1	8.19 (208*)	S428.208	S428.208.1

1) Note: The available width of the lockable shelf Part No. S428.XXX deviates by .31" (8mm) from the width stated in the part number
► page 595

* Available upon request Delivery time upon request.

The next generation of easy-to-assemble e-chains®



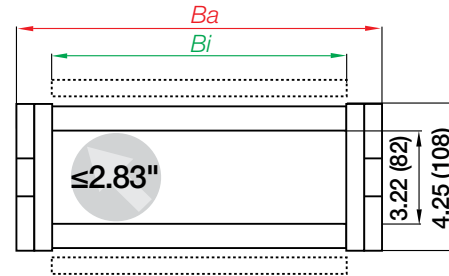
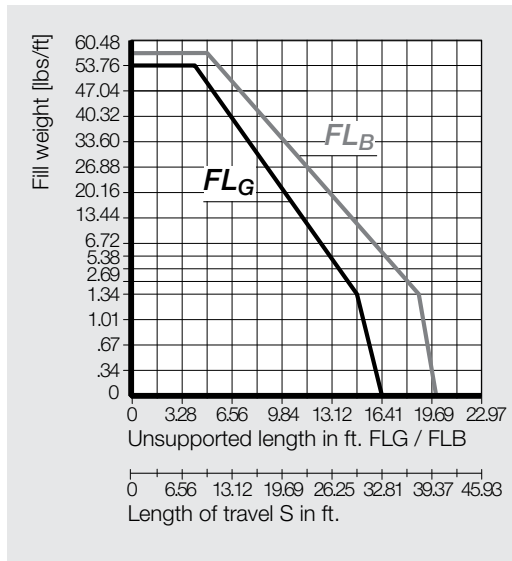
Series E4Q.82 | Crossbars every link (crossbars removable along the inner and outer radius)
Series H4Q.82 | Crossbars every 2nd link (crossbars removable along the inner and outer radius)

Part No.		<i>Bi</i>	<i>Ba</i>	E4Q.82	H4Q.82
e-chains®		in. (mm)	in. (mm)	lbs/ft (kg/m)	lbs/ft (kg/m)
E4Q.82	H4Q.82	100. <i>R.0</i>	3.94 (100)	5.91 (150)	≈ 4.07 (6.05) ≈ 3.88 (5.77)
E4Q.82	H4Q.82	112. <i>R.0</i>	4.41 (112)	6.42 (163)	≈ 4.10 (6.10) ≈ 3.89 (5.79)
E4Q.82	H4Q.82	125. <i>R.0</i>	4.92 (125)	6.89 (175)	≈ 4.11 (6.12) ≈ 3.90 (5.81)
E4Q.82	H4Q.82	137. <i>R.0</i>	5.39 (137)	7.40 (188)	≈ 4.15 (6.17) ≈ 3.92 (5.83)
E4Q.82	H4Q.82	150. <i>R.0</i>	5.91 (150)	7.87 (200)	≈ 4.19 (6.24) ≈ 3.94 (5.87)
E4Q.82	H4Q.82	162. <i>R.0</i>	6.38 (162)	8.39 (213)	≈ 4.23 (6.29) ≈ 3.96 (5.89)
E4Q.82	H4Q.82	175. <i>R.0</i>	6.89 (175)	8.86 (225)	≈ 4.25 (6.32) ≈ 3.96 (5.90)
E4Q.82	H4Q.82	187. <i>R.0</i>	7.36 (187)	9.37 (238)	≈ 4.27 (6.35) ≈ 3.98 (5.92)
E4Q.82	H4Q.82	200. <i>R.0</i>	7.87 (200)	9.84 (250)	≈ 4.33 (6.44) ≈ 4.01 (5.97)
E4Q.82	H4Q.82	212. <i>R.0</i>	8.34 (212)	10.35 (263)	≈ 4.36 (6.49) ≈ 4.03 (5.99)
E4Q.82	H4Q.82	225. <i>R.0</i>	8.86 (225)	10.83 (275)	≈ 4.37 (6.50) ≈ 4.03 (6.00)
E4Q.82	H4Q.82	237. <i>R.0</i>	9.33 (237)	11.34 (288)	≈ 4.39 (6.53) ≈ 4.04 (6.01)
E4Q.82	H4Q.82	250. <i>R.0</i>	9.84 (250)	11.81 (300)	≈ 4.41 (6.57) ≈ 4.05 (6.03)
E4Q.82	H4Q.82	262. <i>R.0</i>	10.31 (262)	12.32 (313)	≈ 4.45 (6.62) ≈ 4.07 (6.05)
E4Q.82	H4Q.82	275. <i>R.0</i>	10.83 (275)	12.80 (325)	≈ 4.48 (6.66) ≈ 4.09 (6.08)
E4Q.82	H4Q.82	287. <i>R.0</i>	11.30 (287)	13.31 (338)	≈ 4.51 (6.71) ≈ 4.10 (6.10)
E4Q.82	H4Q.82	300. <i>R.0</i>	11.81 (300)	13.78 (350)	≈ 4.54 (6.75) ≈ 4.11 (6.12)
E4Q.82	H4Q.82	312. <i>R.0</i>	12.28 (312)	14.29 (363)	≈ 4.57 (6.80) ≈ 4.13 (6.14)
E4Q.82	H4Q.82	325. <i>R.0</i>	12.80 (325)	14.76 (375)	≈ 4.60 (6.84) ≈ 4.15 (6.17)

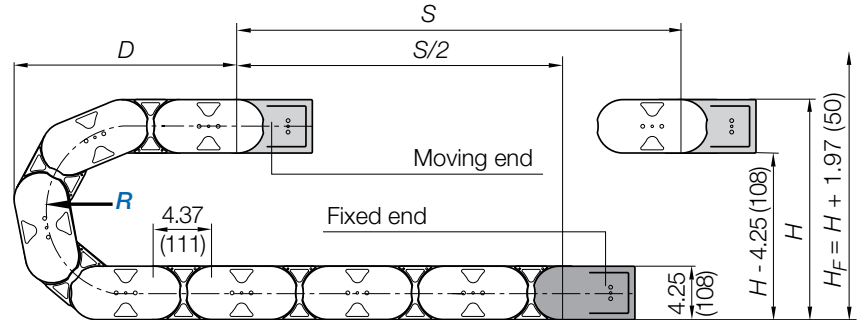
**Width available upon request. Delivery time upon request.

Complete Part No. with required radius (*R*). Example: E4Q.82.125.150.0 = crossbars every link / H4Q.82.125.150.0 = crossbars every 2nd link**Available bend radii***R* in. (mm) | 5.91 (150) | 6.89 (175) | 7.87 (200) | 9.84 (250) | 11.81 (300) | 13.78 (350) | 15.75 (400) | 17.72 (450) | 19.69 (500) | 23.62 (600) | 39.37 (1000) |

Unsupported applications | Short travels



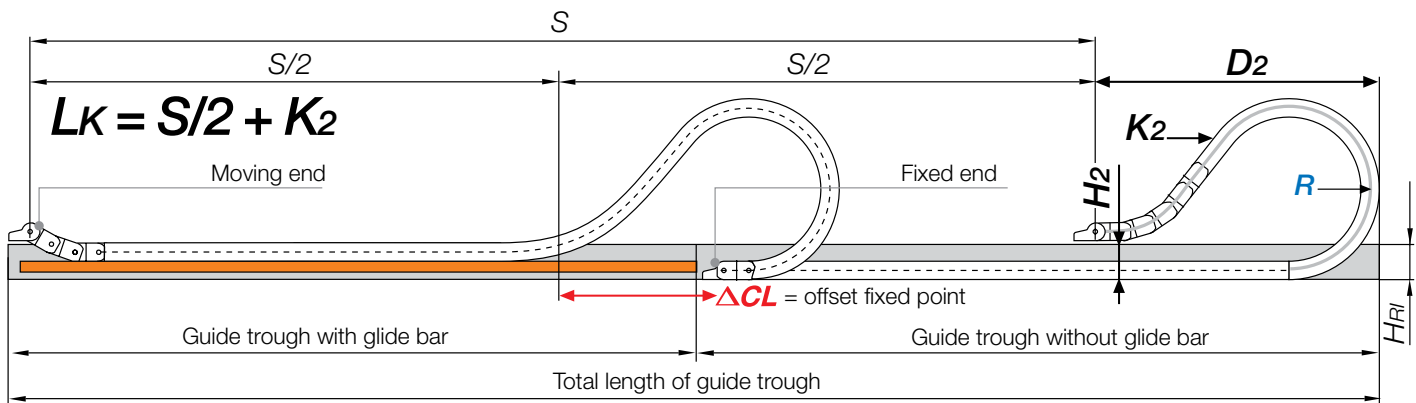
Inner height in. (mm)	3.22 (82)
Pitch per link in. (mm)	4.37 (111)
Links/ft (m)	2.75 (9)
corresponds to (mm)	999
e-chain® length	$L_K = \frac{S}{2} + K$



R	5.91 (150)	6.89 (175)	7.87 (200)	9.84 (250)	11.81 (300)	13.78 (350)	15.75 (400)	17.71 (450)	19.69 (500)	23.62 (600)	39.37 (1000)
H	16.06 (408)	18.03 (458)	20.00 (508)	23.94 (608)	27.87 (708)	31.81 (808)	35.75 (908)	39.69 (1008)	43.62 (1108)	50.50 (1308)	82.99 (2108)
D	14.61 (371)	15.59 (396)	16.57 (421)	18.54 (471)	20.51 (521)	22.48 (571)	24.45 (621)	26.42 (671)	28.39 (721)	32.32 (821)	48.07 (1221)
K	27.36 (695)	30.51 (775)	33.66 (855)	39.76 (1010)	45.87 (1165)	52.17 (1325)	58.27 (1480)	64.57 (1640)	70.67 (1795)	83.07 (2110)	132.48 (3365)

The required clearance height: $H_r = H + 1.97$ in. (50 mm) with 2.02 lbs/ft (3.0 kg/m) fill weight.

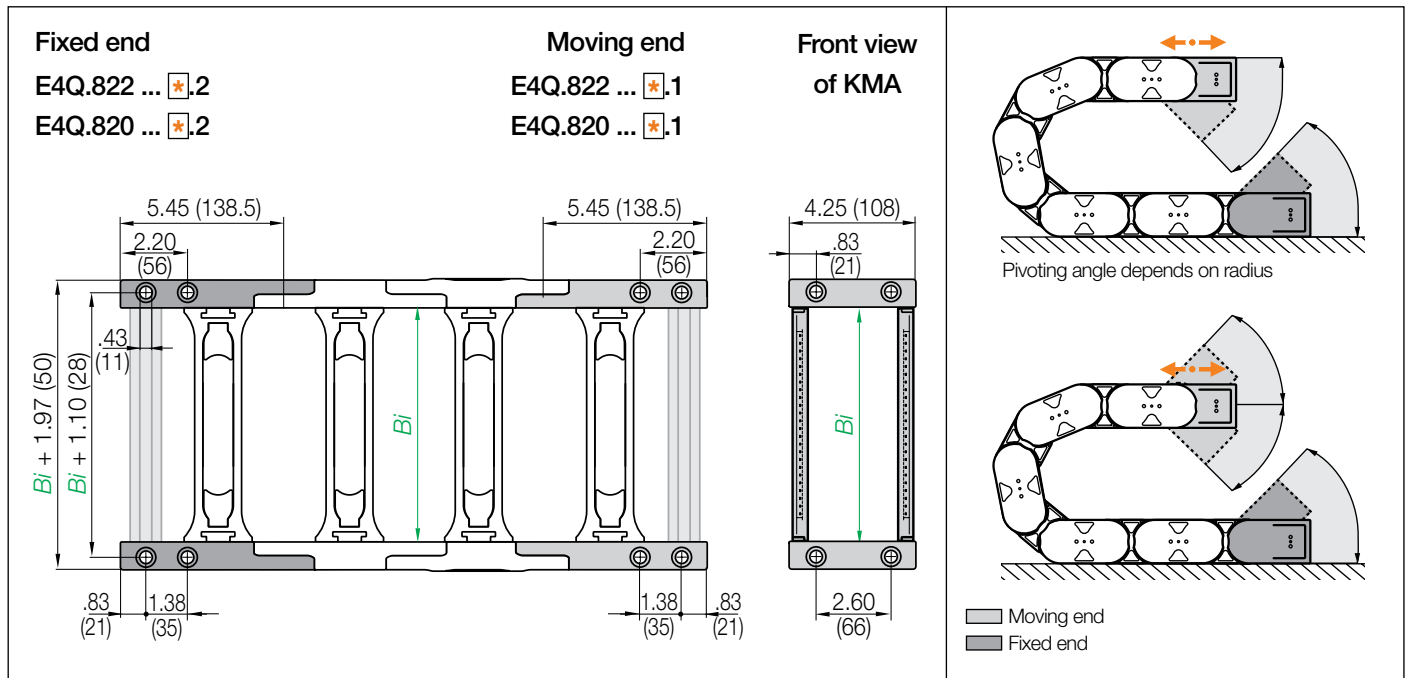
Gliding applications | For travel lengths from 39.3 ft. (12m) to max. 1312 ft. (400m)



Note: We recommend the project planning of such a system to be carried out by igus®.

In case of travels between 32.8ft. (10m) and 39.3 ft. (12m) we recommend an e-chain® with a longer unsupported length.

R	5.91 (150)	6.89 (175)	7.87 (200)	9.84 (250)	11.81 (300)	13.78 (350)	15.75 (400)	17.71 (450)	19.69 (500)	23.62 (600)	39.37 (1000)
H ₂	9.53 (242)	9.53 (242)	9.53 (242)	9.53 (242)	9.53 (242)	9.53 (242)	9.53 (242)	9.53 (242)	9.53 (242)	9.53 (242)	—
D ₂	21.65 (550)	26.57 (675)	31.50 (800)	39.37 (1000)	47.24 (1200)	57.09 (1450)	62.99 (1600)	72.83 (1850)	82.68 (2100)	98.43 (2500)	—
K ₂	35.04 (890)	39.37 (1000)	52.36 (1330)	66.34 (1685)	78.74 (2000)	91.73 (2330)	104.72 (2660)	118.11 (3000)	135.43 (3440)	161.42 (4100)	—
ΔCL	7.44 (189)	11.38 (289)	15.31 (389)	21.22 (539)	27.13 (689)	35.00 (889)	38.94 (989)	46.81 (1189)	54.69 (1389)	66.50 (1689)	—



One end pivoting¹⁾ | Recommended for unsupported, vertical hanging, standing applications
Both ends pivoting | Recommended for gliding applications

Width Index	Part No. KMA full set		Bi	in.	(mm)
	one end pivoting ¹⁾	both ends pivoting			
100.	E4Q.822.100. 12.C	E4Q.820.100. 12.C	3.94	(100)	
112.	E4Q.822.112. 12.C	E4Q.820.112. 12.C	4.41	(112)	
125.	E4Q.822.125. 12.C	E4Q.820.125. 12.C	4.92	(125)	
137.	E4Q.822.137. 12.C	E4Q.820.137. 12.C	5.39	(137)	
150.	E4Q.822.150. 12.C	E4Q.820.150. 12.C	5.91	(150)	
162.	E4Q.822.162. 12.C	E4Q.820.162. 12.C	6.38	(162)	
175.	E4Q.822.175. 12.C	E4Q.820.175. 12.C	6.89	(175)	
187.	E4Q.822.187. 12.C	E4Q.820.187. 12.C	7.36	(187)	
200.	E4Q.822.200. 12.C	E4Q.820.200. 12.C	7.87	(200)	
212.	E4Q.822.212. 12.C	E4Q.820.212. 12.C	8.35	(212)	
225.	E4Q.822.225. 12.C	E4Q.820.225. 12.C	8.86	(225)	
237.	E4Q.822.237. 12.C	E4Q.820.237. 12.C	9.33	(237)	
250.	E4Q.822.250. 12.C	E4Q.820.250. 12.C	9.84	(250)	
262.	E4Q.822.262. 12.C	E4Q.820.262. 12.C	10.31	(262)	
275.	E4Q.822.275. 12.C	E4Q.820.275. 12.C	10.83	(275)	
287.	E4Q.822.287. 12.C	E4Q.820.287. 12.C	11.30	(287)	
300.	E4Q.822.300. 12.C	E4Q.820.300. 12.C	11.81	(300)	
312.	E4Q.822.312. 12.C	E4Q.820.312. 12.C	12.28	(312)	
325.	E4Q.822.325. 12.C	E4Q.820.325. 12.C	12.80	(325)	

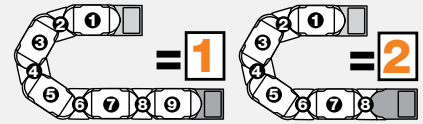
Width Index	Part No. KMA full set		Bi	in.	(mm)
	one end pivoting ¹⁾	both ends pivoting			
337.	E4Q.822.337. 12.C	E4Q.820.337. 12.C	13.27	(337)	
350.	E4Q.822.350. 12.C	E4Q.820.350. 12.C	13.78	(350)	
362.	E4Q.822.362. 12.C	E4Q.820.362. 12.C	14.25	(362)	
375.	E4Q.822.375. 12.C	E4Q.820.375. 12.C	14.76	(375)	
387.	E4Q.822.387. 12.C	E4Q.820.387. 12.C	15.24	(387)	
400.	E4Q.822.400. 12.C	E4Q.820.400. 12.C	15.75	(400)	
412.	E4Q.822.412. 12.C	E4Q.820.412. 12.C	15.75	(412)	
425.	E4Q.822.425. 12.C	E4Q.820.425. 12.C	15.75	(425)	
437.	E4Q.822.437. 12.C**	E4Q.820.437. 12.C**	15.75	(437)	
450.	E4Q.822.450. 12.C	E4Q.820.450. 12.C	15.75	(450)	
462.	E4Q.822.462. 12.C**	E4Q.820.462. 12.C**	15.75	(462)	
475.	E4Q.822.475. 12.C**	E4Q.820.475. 12.C**	15.75	(475)	
487.	E4Q.822.487. 12.C**	E4Q.820.487. 12.C**	15.75	(487)	
500.	E4Q.822.500. 12.C	E4Q.820.500. 12.C	15.75	(500)	
512.	E4Q.822.512. 12.C**	E4Q.820.512. 12.C**	15.75	(512)	
525.	E4Q.822.525. 12.C**	E4Q.820.525. 12.C**	15.75	(525)	
537.	E4Q.822.537. 12.C**	E4Q.820.537. 12.C**	15.75	(537)	
550.	E4Q.822.550. 12.C**	E4Q.820.550. 12.C**	15.75	(550)	
600.	E4Q.822.600. 12.C**	E4Q.820.600. 12.C**	15.75	(600)	

1) One end pivoting - standard for E4Q mounting brackets. For the C-profile option please add index .C

**Width available upon request. Delivery time upon request. (KMA = polymer metal mounting bracket)

KMA mounting brackets | Attachment from any side | Pivoting

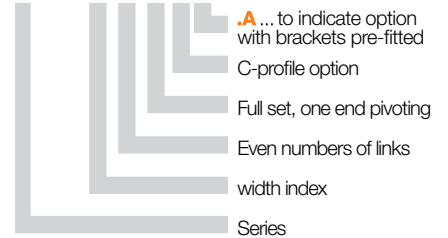
Note *: The e-chains® may end with either an inner or an outer side link. An outer side link should always be the first e-chain® link at the moving end. Please specify the index **1** (for odd) or **2** (for even) depending on an even or odd number of links required.



Possible orientations for KMA mounting brackets. For mounting brackets pre-fitted **without C-profile**, please attach index **.A**. For types pre-fitted **with C-profile** please attach index **.A1**, **.A2**, **.A3** or **.A4**.

E4Q.822.150.2.12.C.A2

Order example



Strain relief e.g. clamps, tiwrap plates, nuggets and clips are available from stock. The complete chainfix range with ordering options ► From page 1418

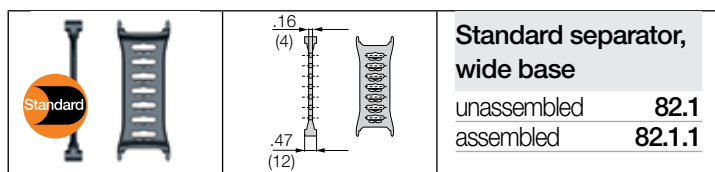
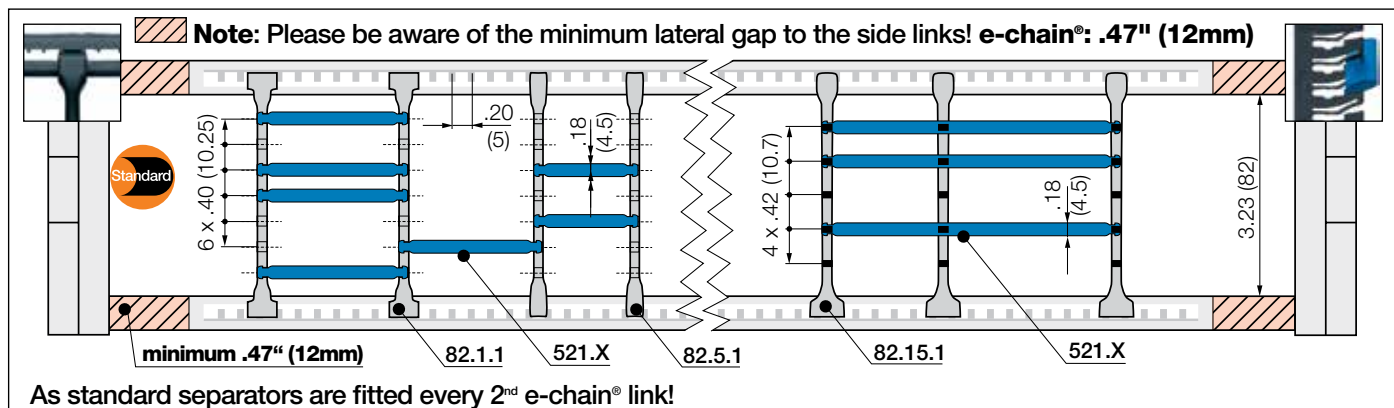
Steel support tray for support of the lower run

- Simple one-piece support trays for the lower run
- To your requirements and specification
- 4 options available

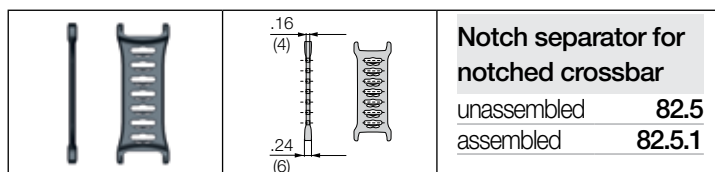
More information ► From page 1394



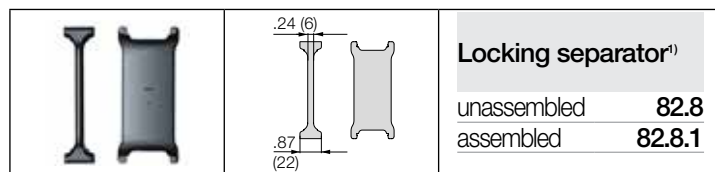
Interior separation | Increase cable service life

**Standard - for any application**

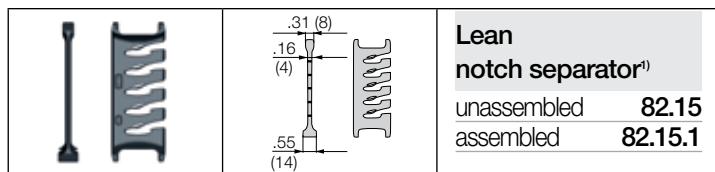
Separator with a wide base for maximum holding force.

**Locks securely in preset increments**

Notch separator for exact positioning. Recommended for side-mounted applications.

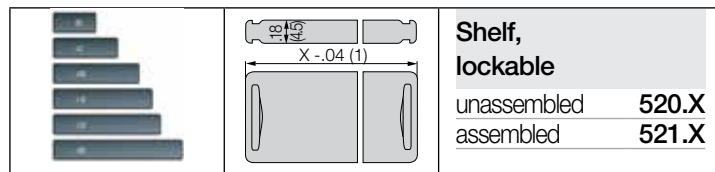
**Clamp dividers for increased holding power**

Clamp dividers for higher management in high humidity and/or large hydraulic hoses

**Lean notch separators¹⁾**

For quick fitting of shelves in several layers. Snaps securely into the crossbar in 5mm steps to be positioned securely.

1) Note: Please combine maximum 4 lean separators with one shelf. Not suitable for side-mounted e-chains®!

**Horizontal separation**

Full-width shelf locks securely into separators at both ends, giving a fixed width. Can be used as full-width or partial shelf.

Shelves

Width = X in. (mm)



X in. (mm)	unassembled	assembled	X in. (mm)	unassembled	assembled	X in. (mm)	unassembled	assembled
1.97 (050)	520.050	521.050	5.91 (150)	520.150	521.150	11.81 (300)	520.300	521.300
2.56 (065)	520.065	521.065	6.89 (175)	520.175	521.175	13.78 (350)	520.350	521.350
2.95 (075)	520.075	521.075	7.87 (200)	520.200	521.200	14.76 (375)	520.375	521.375
3.94 (100)	520.100	521.100	8.86 (225)	520.225	521.225	15.24 (387)	520.387	521.387
4.92 (125)	520.125	521.125	9.84 (250)	520.250	521.250	17.72 (450)	520.450	521.450

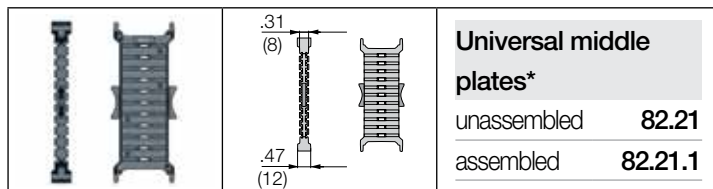
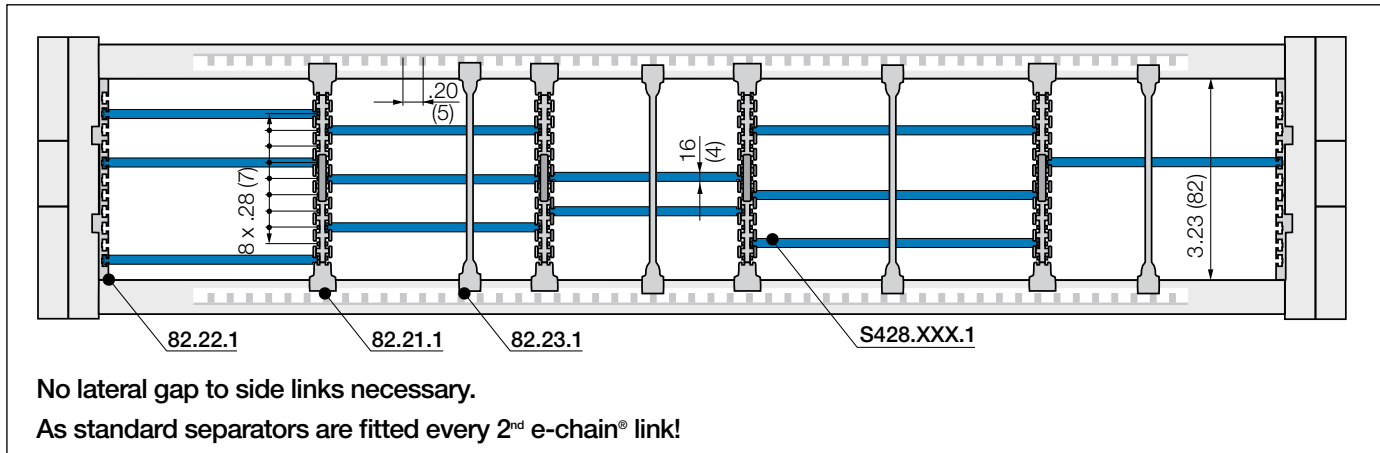
Lean notch separator design principle | For even faster filling

With the lean separator you can quickly insert several layers of cables into the e-chain® and reduce the installation time by up to 50%²⁾.

²⁾ Lean interior separation vs. standard interior separation - measured on a 4m long e-chain® fitted with 12 cables in the igus® lab

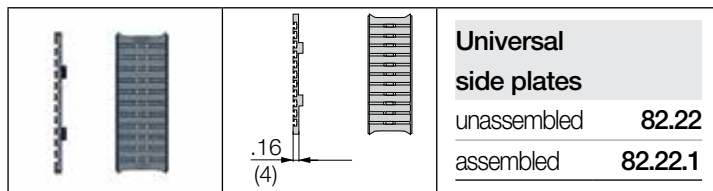


Universal interior separation | Modular shelving for complete flexibility



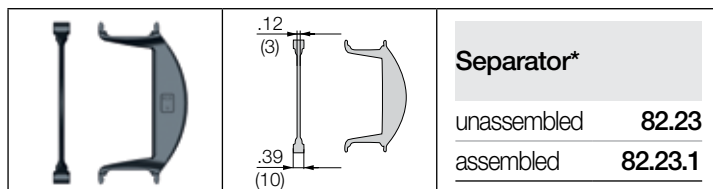
Universal middle plates

The shelves can be inserted from both sides. The shelves are locked in place by means of the integrated slider and additionally when the crossbar is fitted. For unlocking, the crossbar must be removed - on the inner or outer radius.



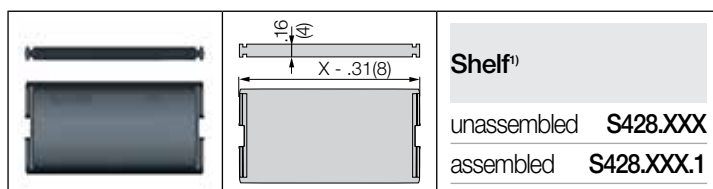
Universal side plates

Allow modular shelving right up to the side links. Shelves can be inserted from both sides.



Separators for universal interior separation

For additional vertical partitioning of the shelf system. When using the separator, the shelves can only be removed in one direction.



Separators¹⁾ for universal interior separation

Shelves of various widths can be arranged in steps of .28 (7mm).

Shelves¹⁾

Width = XXX in. [mm]



xxx in. (mm)	unassembled	assembled	xxx in. (mm)	unassembled	assembled	xxx in. (mm)	unassembled	assembled
.71 (018)	S428.018	S428.018.1	2.28 (058)	S428.058	S428.058.1	3.94 (100*)	S428.100	S428.100.1
.91 (023*)	S428.023	S428.023.1	2.44 (062*)	S428.062	S428.062.1	4.25 (108)	S428.108	S428.108.1
.98 (025*)	S428.025	S428.025.1	2.68 (068*)	S428.068	S428.068.1	4.92 (125*)	S428.125	S428.125.1
1.10 (028*)	S428.028	S428.028.1	2.76 (070)	S428.070	S428.070.1	5.91 (150*)	S428.150	S428.150.1
1.30 (033*)	S428.033	S428.033.1	2.95 (075*)	S428.075	S428.075.1	6.89 (175*)	S428.175	S428.175.1
1.73 (044)	S428.044	S428.044.1	3.27 (083)	S428.083	S428.083.1	7.87 (200*)	S428.200	S428.200.1
1.97 (050)	S428.050	S428.050.1	3.43 (087*)	S428.087	S428.087.1	8.19 (208*)	S428.208	S428.208.1

1) Note: The available width of the lockable shelf Part No. S428.XXX deviates by .31" (8mm) from the width stated in the part number
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* Available upon request Delivery time upon request.